

Características Generales de los Luminarios LEDS para Empotrar LightLed.

Los Luminarios LEDS LightLed para empotrar, tienen un extraordinario rendimiento, hace posible reducir considerablemente el consumo energético sin afectar la calidad de iluminación en aplicaciones generales con luz blanca.

Con diámetro de corte del falso techo de 120 mm.

LightLed, ofrece un aspecto y diseño compacto, crea una iluminación suave y natural, que garantiza el confort visual.

Con un consumo de apenas 9 W que permite ahorrar hasta un 50% de energía.

Es muy fácil y segura la instalación.

Su larga duración de 35000 horas pone fin al problema de reposición de lámparas.

LightLed, tiene un Índice de Protección de entrada de cuerpos sólidos y humedad de 60 IP.

Está fabricado en Aluminio con terminado en color Blanco y Níquel Satín.

Incluye una balastra para el funcionamiento a Corriente Alterna Domestica.

Aplicaciones de los Luminarios LEDS para Empotrar LightLed.

Los Luminarios LEDS LightLed para empotrar en techo, están indicadas para todos los usos, creando un ambiente decorativo, tanto a nivel doméstico como en centros comerciales, hoteles, oficinas, edificios, restaurantes, teatros, plazas comerciales, hoteles, universidades, colegios, escuelas, etc.

Garantía de los Luminarios LEDS para Empotrar LightLed.

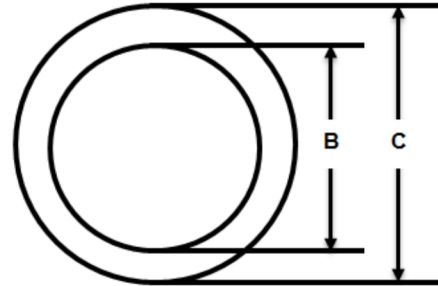
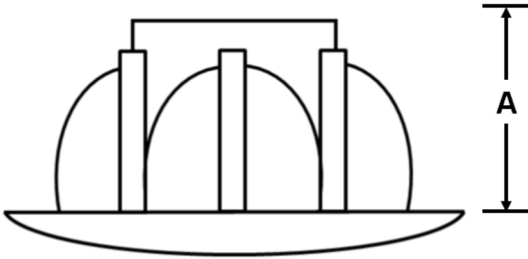
Las Luminarias LightLed, tienen una garantía de 2 (dos) años sujeto a cláusulas VentDepot.



Características Técnicas Específicas de los Luminarios LEDS para Empotrar LightLed

Clave	Alimentación			Tipo de Lámpara	Ángulo de Apertura	Temperatura de Color	Color	Índice de Protección	Terminado	Material	Peso		Dimensiones con Empaque					
	VCA	Im	W								kg	lb	Base	Altura	Fondo			
	cm	in	cm								in	cm	in	cm	in			
MXLHT-001	85/265	630	9	LED	120°	3000° K	Blanco Cálido	60	Blanco	Aluminio	0.15	0.33	16	6	8	3	16	6
MXLHT-002	85/265	630	9	LED	120°	6000° K	Blanco Frío	60	Blanco	Aluminio	0.15	0.33	16	6	8	3	16	6
MXLHT-003	85/265	630	9	LED	120°	3000° K	Blanco Cálido	60	Níquel Satín	Aluminio	0.15	0.33	16	6	8	3	16	6
MXLHT-004	85/265	630	9	LED	120°	6000° K	Blanco Frío	60	Níquel Satín	Aluminio	0.15	0.33	16	6	8	3	16	6

Dimensiones en mm



Clave	A	B	C
MXLHT-001	58	120	145
MXLHT-002	58	120	145
MXLHT-003	58	120	145
MXLHT-004	58	120	145

Galería

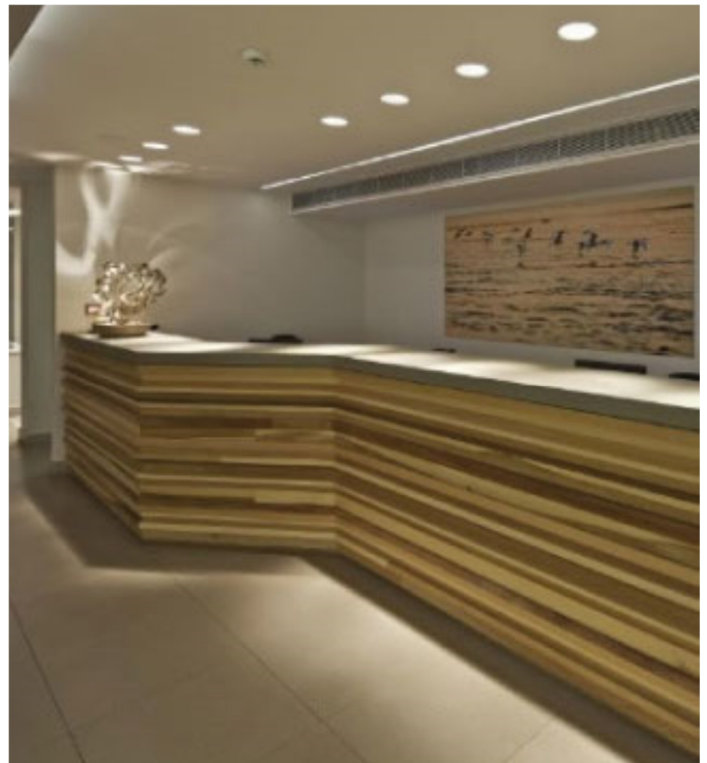




Tabla de Equivalencia de Watts

LED Watts	Fluorescente Watts	Incandescente Watts
1	2	8
2	4	16
3	6	24
4	8	32
5	10	40
6	12	48
7	14	56
8	16	64
9	18	72
10	20	80
11	22	88
12	24	96
13	26	104
14	28	112
15	30	120
16	32	128
17	34	136
18	36	144
19	38	152
20	40	160
21	42	168
22	44	176
23	46	184
24	48	192
25	50	200
26	52	208
27	54	216
28	56	224
29	58	232
30	60	240
31	62	248
32	64	256
33	66	264
34	68	272
35	70	280
36	72	288
37	74	296
38	76	304
39	78	312
40	80	320
41	82	328
42	84	336
43	86	344
44	88	352
45	90	360
46	92	368
47	94	376
48	96	384
49	98	392
50	100	400
75	150	600
100	200	800
150	300	1200
200	400	1600



Índices de Protección IP: Tabla de Referencia

Primera Cifra de Característica		Grados de Protección a partes Peligrosas	Segunda Cifra de Característica		Grados de Protección a partes Peligrosas			
I.P	Ejemplo		I.P	Ejemplo				
0		No protegida	Sin protección	0		No protegida	Sin protección	
1		Impide la penetración de una esfera de 50 mm de diámetro. Protege contra contacto accidental	Reverso de la mano	1		Protegida contra la caída vertical de gotas de agua	Goteo vertical	
2		Impide la penetración de una esfera de 12mm de diámetro	Dedos u objetos análogos	2		Protegida contra la caída de gotas de agua con una inclinación máxima de 15°	Goteo vertical con una inclinación máxima de hasta 15° con respecto a la posición normal	
3		Impide la penetración de una sonda de 2.5 mm de diámetro	Herramientas	3		Protegida contra la lluvia fina (pulverizada)	Agua pulverizada (lluvia) con una dirección de hasta 60° con la vertical	
5		Impide la penetración de una sonda de 1 mm de diámetro	Alambres	4		Protegida contra las proyecciones de agua, penetración limitada permitida	Proyección de agua en todas direcciones limitadas	
5		Protegida contra la penetración de polvo (acumulación no peligrosa)	Protección al polvo	Alambres	5		Protegida contra los chorros de agua, penetración limitada permitida	Agua proyectada con la ayuda de una boquilla en todas las direcciones
6		Estanqueidad total al polvo	Estanqueidad total al polvo		6		Protegida contra fuertes chorros de agua o contra la mar gruesa	Fuertes chorros de agua o contra la mar gruesa en todas las direcciones
				7		Protegida contra los efectos de la inmersión prolongada a las profundidades entre 150 mm y 1 m	Inmersión temporal	
				8		Protegida contra la inmersión prolongada a las profundidades específicas	Inmersión prolongada en agua bajo las condiciones específicas por el fabricante*	

Ejemplo:

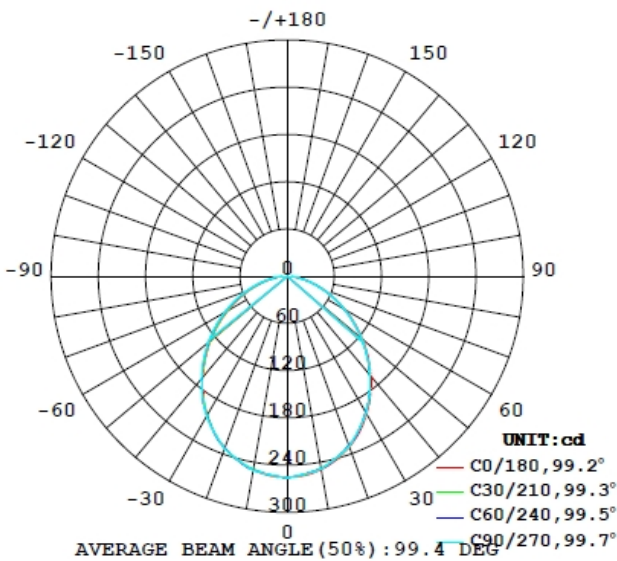
- I.P. – 31: Impide la penetración de una sonda de 2.5 mm de diámetro. Protegida contra la caída vertical de gotas de agua.
- I.P. – 66: Estanqueidad total al polvo. Protegida contra fuertes chorros de agua contra la mar gruesa.
- I.P. – 01: Sin protección. Protegida contra la caída vertical de gotas de agua.
- I.P. – 62: Estanqueidad total al polvo. Protegida contra la caída de gotas de agua con una inclinación máxima de 15°.

Everfine Goniophotometers System Test Report

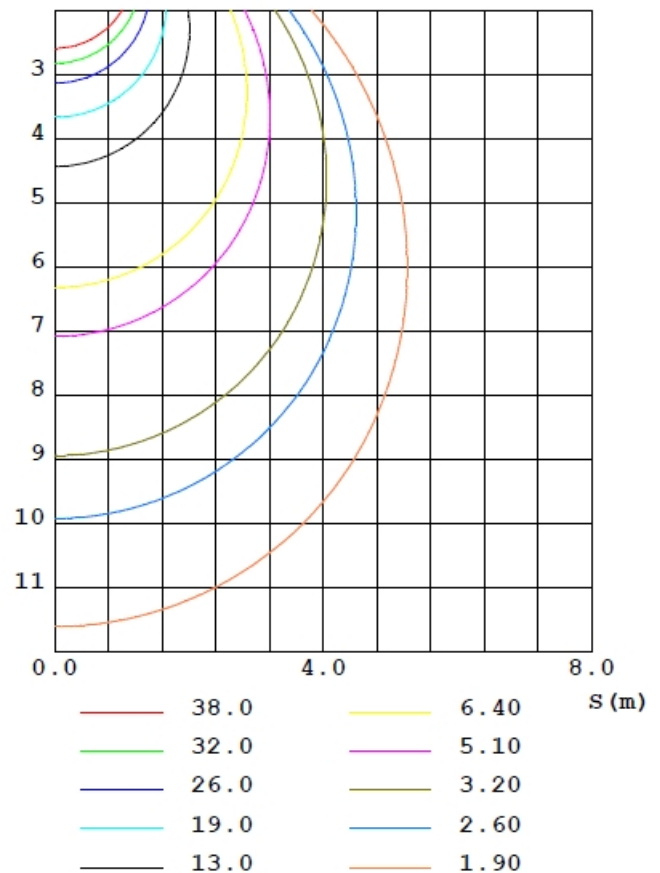
Luminaire Photometric Test Report		
Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm		
NAME: MZLD-09007	TYPE:	
DIM.: 0.145m	SPEC.:	SERIAL No.:1
MFR.: Mazzetti	SUR.:(R)d=0.1m	PROTECTION ANGLE:

Data of Lamp		Photometric Data			
Model		Imas (cd)	255.7	s/mh (c0/180)	1.18
Nominal Power(w)	9	Lour (%)	78.9	s/mh (c90/270)	1.17
Rated Voltage(v)	220	Total Flux (lm)	631.01	η up.dn (c0-180)	0.0,38.6
Nominal Flux (lm)	800	Cie Class	direct	η up.dn (c180-360)	0.0,40.3
Lamps Inside	1	η up(%)	0.0	Cibse Shr Nom	1.25
Test Voltage (v)	2192	η down (%)	78.9	Cibse Shr Max	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

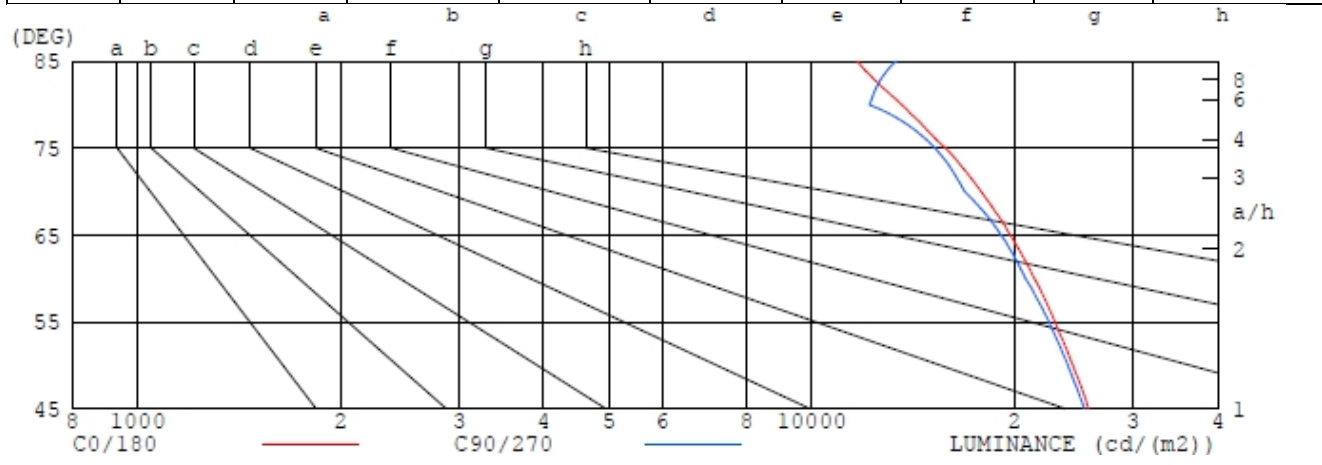


C0 PLANE ISOLUX DIAGRAM (UNIT: lx)
 MH (m)



Zonal Flux Diagram and Luminance Limitation Curves													
ψ	C0	C45	C90	C135	C180	C225	C270	C315	ψ	α zone	α total	%lum,lamp	
5	153.8	152.2	152.2	152.6	154.3	153.4	153.3	153.0	0- 5	3.680	3.680	1.14,0.82	
10	149.6	147.8	148.9	148.6	150.5	150.2	151.2	149.4	5- 10	10.81	14.49	4.49,3.22	
15	142.9	141.6	140.9	142.8	144.4	145.1	144.1	143.8	10- 15	17.33	31.82	9.86,7.07	
20	134.0	131.9	133.0	133.2	135.9	136.2	137.1	134.6	15- 20	22.83	54.65	16.9,12.1	
25	123.2	121.5	121.6	122.9	125.5	126.4	126.1	124.6	20- 25	27.08	81.73	25.3,18.2	
30	111.1	109.6	110.1	111.0	113.4	114.7	115.0	112.7	25- 30	29.81	111.5	34.6,24.8	
35	98.35	96.72	97.25	98.21	100.6	101.8	102.0	99.72	30- 35	31.08	142.6	44.2,31.7	
40	85.30	84.09	84.37	85.66	87.57	89.11	88.94	87.05	35- 40	30.93	173.6	53.8,38.6	
45	72.63	71.45	71.93	72.67	74.55	75.98	76.44	74.20	40- 45	29.58	203.1	63.45,1.1	
50	60.43	59.58	59.49	60.40	62.16	63.60	63.95	62.22	45- 50	27.25	230.4	71.4,51.2	
55	49.04	48.10	48.40	48.88	50.42	52.04	52.79	50.88	50- 55	24.17	254.6	78.9,56.6	
60	38.40	37.47	37.32	38.14	39.54	41.32	41.63	40.30	55- 60	20.59	275.1	85.3,61.1	
65	28.56	27.84	28.05	28.36	29.56	31.40	32.15	30.64	60- 65	16.66	291.8	90.5,64.8	
70	19.82	19.33	18.78	19.68	20.63	22.47	22.68	21.95	65- 70	12.66	304.5	94.4,67.7	
75	12.45	11.93	12.37	12.16	13.03	14.52	15.56	14.19	70- 75	8.814	313.3	97.1,69.6	
80	6.609	6.580	5.963	6.687	6.970	8.461	8.443	8.279	75- 80	5.461	318.8	98.8,70.8	
85	2.431	2.825	3.389	2.849	2.677	3.825	4.624	3.743	80- 85	2.773	321.5	99.7,71.4	
90	0.4601	0.7925	0.8153	0.7805	0.7635	0.6581	0.8055	0.6195	85- 90	1.078	322.6	100,71.7	
95									90- 95				
100									95-100				
105									100-105				
110									105-110				
115									110-115				
120									115-120				
125									120-125				
130									125-130				
135									130-135				
140									135-140				
145									140-145				
150									145-150				
155									150-155				
160									155-160				
165									160-165				
170									165-170				
175									170-175				
180									175-180				
DEG	LUMINOUS INTENSITY:cd								UNIT:lm				

Luminance Limitation Curves									
Glare	Class	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

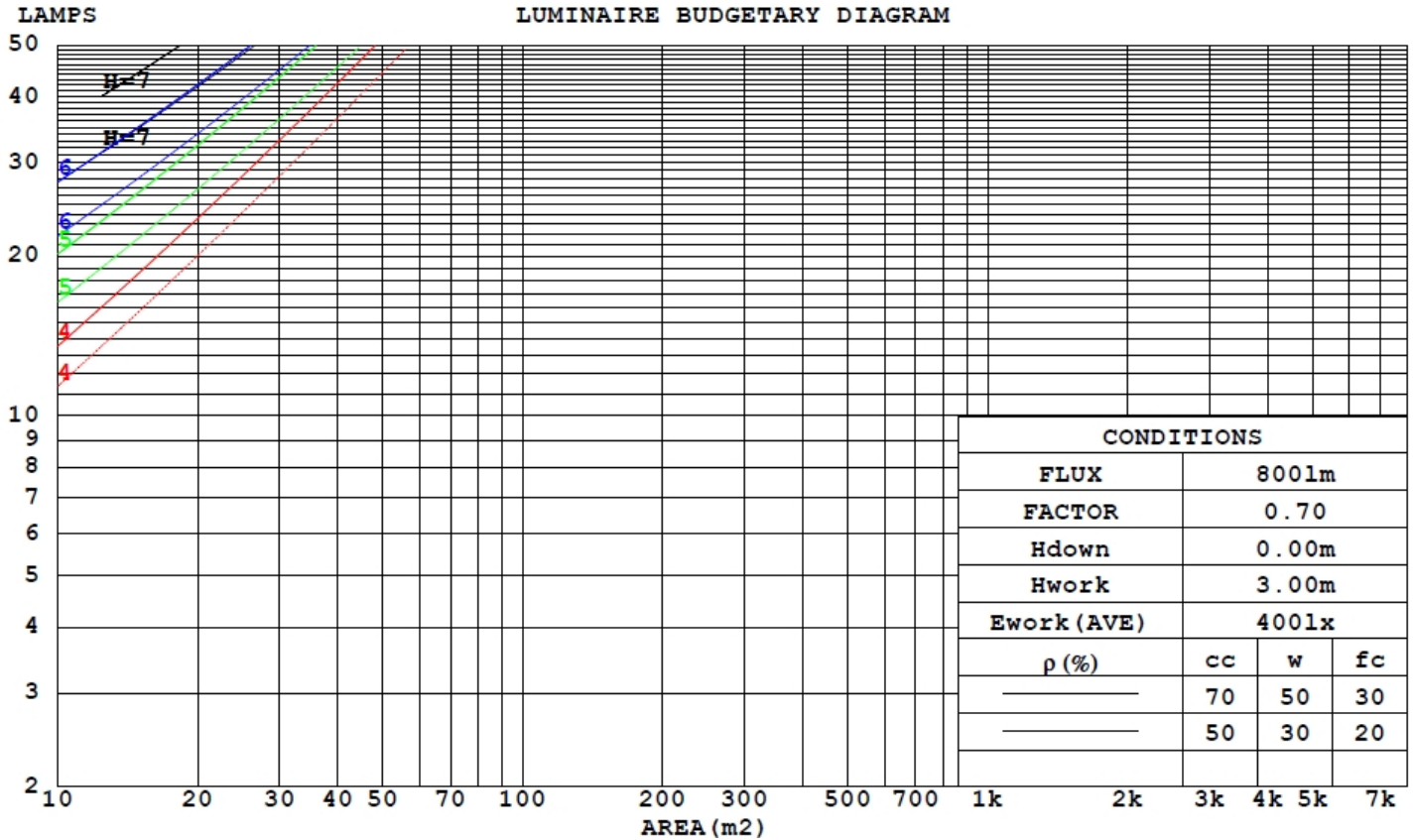


Luminance cd/(m2)		
G (DEG)	CO/180	C90/270
85	C0/180	C90/270
80	11681	13331
75	13598	12185
70	15782	15219
65	17830	16848
60	19694	19084
55	21377	20736
50	22940	22466
45	24381	23964

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM		
Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm		
NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

TT cc	80%	70%	50%	30%	10%	0
TT w	50%	30% 10%	50%	30% 10%	50% 30% 10%	50%
TT fc	20%	20%	20%	20%	20%	0

RCR	RCR: Room Cavity Ration						Coefficients of Utilization(CU)									
0.0	.94	.94	.94	.92	.92	.92	.88	.88	.88	.84	.84	.84	.80	.80	.80	.79
1.0	.83	.79	.79	.81	.78	.78	.77	.77	.77	.74	.72	.74	.71	.71	.71	.67
2.0	.72	.67	.67	.71	.66	.66	.68	.68	.68	.66	.62	.66	.63	.63	.63	.56
3.0	.64	.58	.58	.63	.57	.57	.60	.60	.60	.58	.54	.58	.56	.56	.56	.48
4.0	.57	.50	.50	.56	.50	.50	.54	.54	.54	.52	.47	.52	.50	.50	.50	.41
5.0	.51	.44	.44	.50	.44	.44	.49	.49	.49	.47	.42	.47	.46	.46	.46	.36
6.0	.46	.39	.39	.45	.39	.39	.44	.44	.44	.43	.37	.43	.41	.41	.41	.32
7.0	.42	.35	.35	.41	.35	.35	.40	.40	.40	.39	.34	.39	.38	.38	.38	.28
8.0	.38	.32	.32	.38	.32	.32	.37	.37	.37	.36	.31	.36	.35	.35	.35	.25
9.0	.35	.29	.29	.35	.29	.29	.34	.34	.34	.33	.28	.33	.32	.32	.32	.23
10.0	.33	.27	.27	.32	.26	.26	.31	.31	.31	.31	.26	.31	.30	.30	.30	.21



Wec and CCEC

Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm

NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

π cc	80%	70%	50%	30%	10%	0
πTW	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
π fc	20%	20%	20%	20%	20%	0

RCR	RCR: Room Cavity Ratio						Wall Exitance Coefficients (WEC)								
0.0															
1.0	.233	.133	.042	.228	.130	.041	.217	.125	.040	.208	.120	.038	.199	.115	.037
2.0	.220	.121	.037	.215	.119	.037	.206	.115	.036	.198	.111	.035	.190	.107	.034
3.0	.204	.109	.033	.200	.107	.032	.192	.104	.032	.185	.101	.031	.178	.098	.030
4.0	.189	.098	.029	.186	.097	.029	.178	.095	.028	.172	.092	.028	.166	.090	.027
5.0	.176	.090	.026	.172	.088	.026	.166	.086	.025	.160	.084	.025	.155	.083	.025
6.0	.163	.082	.023	.160	.081	.023	.155	.079	.023	.150	.078	.023	.145	.076	.023
7.0	.152	.075	.021	.150	.075	.021	.145	.073	.021	.140	.072	.021	.136	.070	.021
8.0	.143	.070	.020	.140	.069	.020	.136	.068	.019	.132	.067	.019	.128	.066	.019
9.0	.134	.065	.018	.132	.064	.018	.128	.063	.018	.124	.062	.018	.120	.061	.018
10.0	.126	.061	.017	.124	.060	.017	.121	.059	.017	.117	.058	.017	.114	.057	.016

TCR	80%	70%	50%	30%	10%	0
TCW	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
TCF	20%	20%	20%	20%	20%	0

RCR	RCR: Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)								
0.0	.150	.150	.150	.128	.128	.128	.088	.088	.088	.050	.050	.050	.016	.016	.016
1.0	.141	.123	.107	.121	.106	.092	.083	.073	.064	.048	.042	.037	.015	.014	.012
2.0	.135	.104	.079	.115	.090	.068	.079	.062	.047	.046	.036	.028	.015	.012	.009
3.0	.128	.090	.060	.110	.078	.052	.075	.054	.036	.044	.032	.021	.014	.010	.007
4.0	.122	.079	.047	.105	.069	.041	.072	.048	.029	.042	.028	.017	.013	.009	.006
5.0	.116	.071	.038	.100	.062	.033	.069	.043	.023	.040	.025	.014	.013	.008	.005
6.0	.110	.065	.032	.095	.056	.028	.066	.039	.019	.038	.023	.012	.012	.008	.004
7.0	.105	.059	.027	.090	.051	.023	.063	.036	.017	.036	.021	.010	.012	.007	.003
8.0	.100	.054	.023	.086	.047	.020	.060	.033	.014	.035	.020	.009	.011	.006	.003
9.0	.095	.051	.020	.082	.044	.018	.057	.031	.013	.033	.018	.007	.011	.006	.002
10.0	.091	.047	.018	.079	.041	.016	.054	.029	.011	.032	.017	.007	.010	.006	.002

Uncorrected UGR Table		
Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm		
NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



Room dimensions		Viewed crosswise						Viewed endwise				
x =	2Hy =	2H	23.4	24.9	23.7	25.1	25.3	23.3	24.8	23.6	25.0	25.2
		3H	24.6	26.0	24.9	26.2	26.4	24.5	25.9	24.8	26.1	26.3
		4H	25.1	26.4	25.4	26.6	26.9	25.0	26.3	25.3	26.5	26.8
		6H	25.4	26.6	25.7	26.9	27.2	25.2	26.5	25.6	26.7	27.0
		8H	25.5	26.7	25.8	26.9	27.2	25.3	26.5	25.7	26.8	27.1
		12H	25.5	26.7	25.9	27.0	27.3	25.4	26.5	25.8	26.8	27.1
	4H	2H	23.9	25.2	24.2	25.4	25.7	23.8	25.1	24.1	25.4	25.6
		3H	25.3	26.4	25.6	26.7	27.0	25.2	26.3	25.5	26.6	26.9
		4H	25.9	26.9	26.2	27.2	27.5	25.8	26.8	26.1	27.1	27.4
		6H	26.3	27.2	26.7	27.6	27.9	26.2	27.1	26.6	27.4	27.8
		8H	26.4	27.3	26.8	27.6	28.0	26.3	27.1	26.7	27.5	27.9
		12H	26.5	27.3	27.0	27.7	28.1	26.4	27.2	26.8	27.6	28.0
	8H	2H	26.0	26.9	26.5	27.3	27.6	26.0	26.8	26.4	27.2	27.6
		6H	26.6	27.3	27.0	27.7	28.1	26.5	27.2	26.9	27.6	28.0
		8H	26.8	27.4	27.3	27.9	28.3	26.7	27.3	27.1	27.7	28.2
		12H	27.0	27.5	27.5	28.0	28.5	26.9	27.4	27.4	27.9	28.4
	12H	4H	26.0	26.9	26.5	27.3	27.6	26.0	26.8	26.4	27.2	27.6
		6H	26.6	27.3	27.0	27.7	28.1	26.5	27.2	26.9	27.6	28.0
		8H										

Variations with the observer position at spacings:			
S=	1.0H		+0.2/-
	1.5H		+0.1/-
	2.0H		+0.3/-

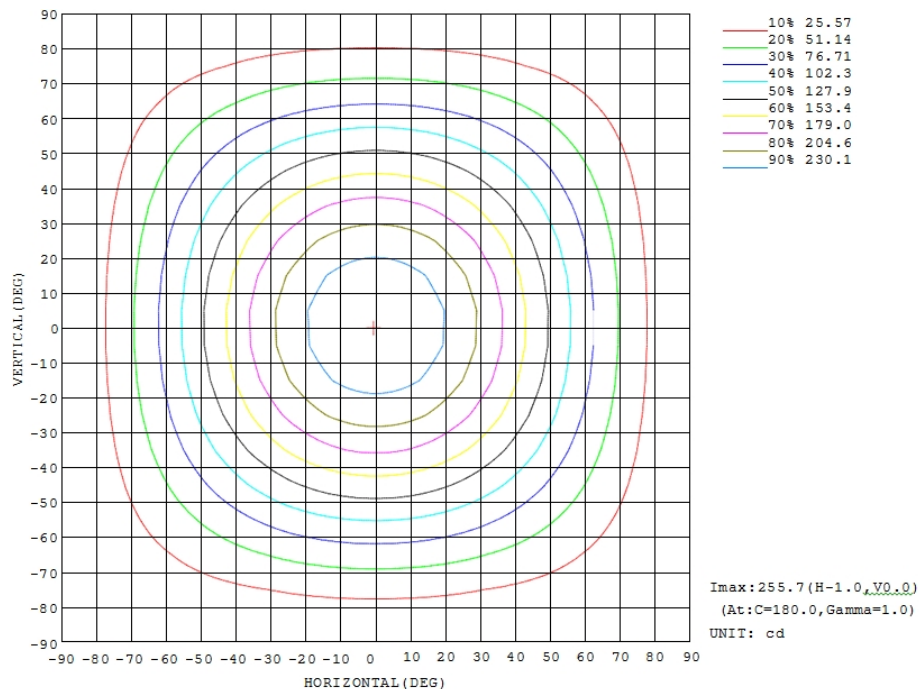
CIE Pub.117 Corrected 800.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.8)

Utilization Factors Table		
Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm		
NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

Reflectance										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0

Room Index		Utilization Factors (Percent) k(RI) x RCR = 5									
k=	0.60	47	38	33	47	38	33	46	38	33	28
	0.80	55	46	41	54	46	41	53	45	40	35
	1.00	62	53	48	61	53	48	59	54	47	42
	1.25	67	59	54	66	59	54	64	58	53	47
	1.50	71	63	58	70	63	58	67	61	57	51
	2.00	76	70	65	75	69	64	72	67	63	57
	2.50	79	73	69	77	72	68	74	70	66	60
	3.00	81	76	72	80	75	71	77	73	70	63
	4.00	84	80	77	83	79	76	79	76	73	67
	5.00	86	83	80	84	81	78	81	78	76	69
Room Index	Uf (total)										Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25				

Isocandela Diadram		
Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm		
NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

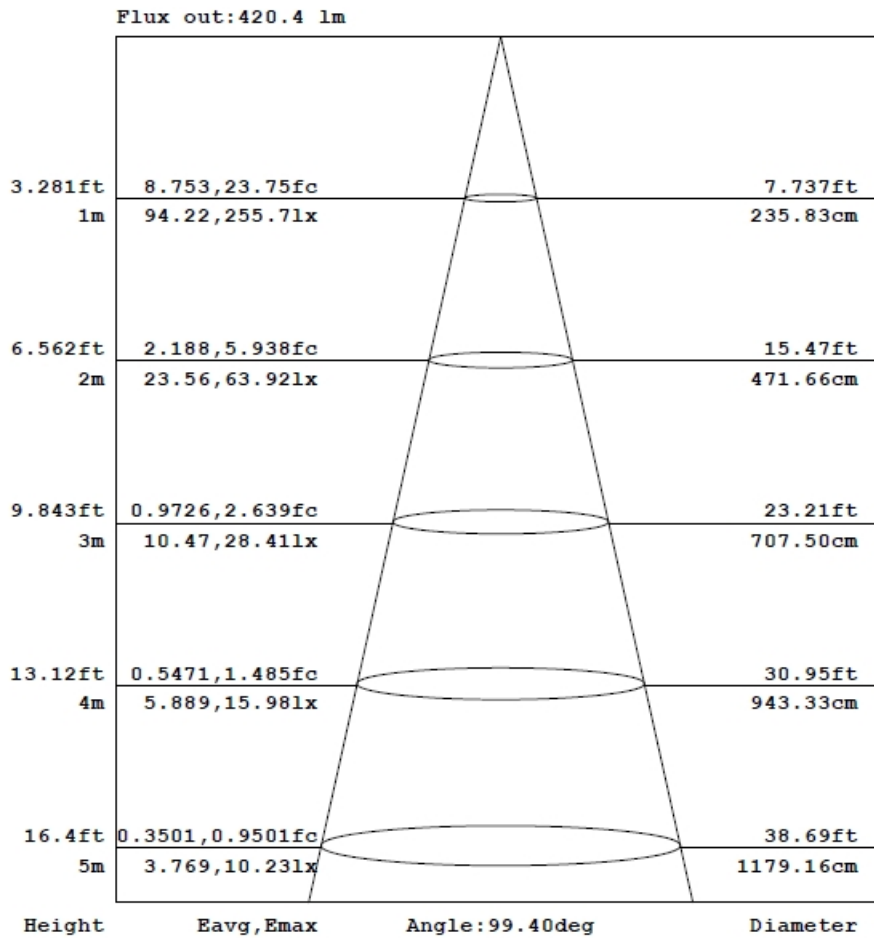




AAI Figure

Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm

NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

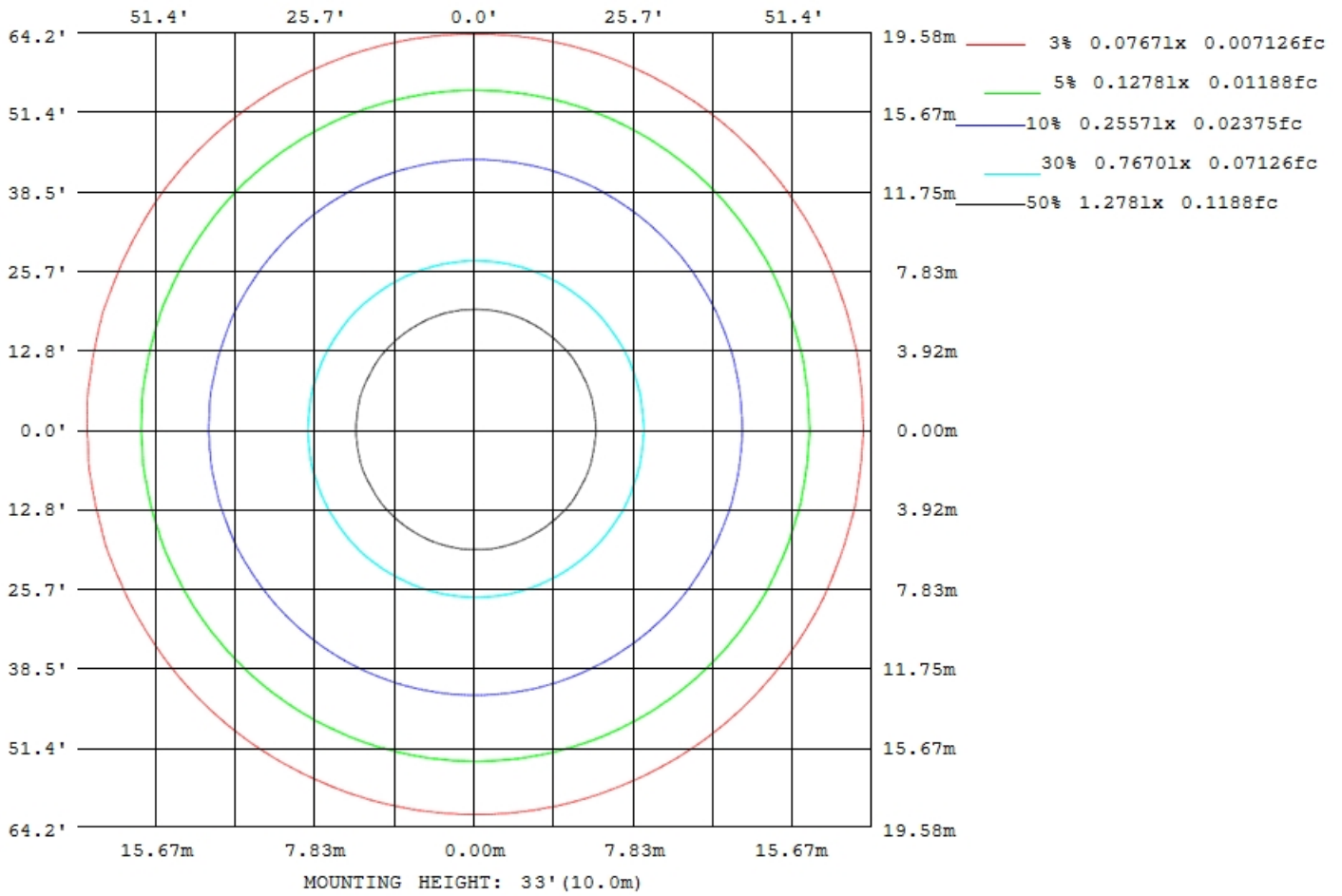


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Isolux Diagram

Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm

NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti





Average Luminance Table (CIBSE)		
Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm		
NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	800	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.008	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G deg	C plane (deg)																	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
55	22940222615225462249622496224402243122435224532246622511225502226112226592273322809229232306023280																	
60	21377210852101021001208542084520819207742074520736207822086720964210642114921247214582149421740																	
65	19694194911927819195191371907519056190691908019084191191916019176192411940519511196471984220070																	
70	17830175091744017317172211722817128169861688016848169291707517258173921738817629177631796118211																	
75	15782154721538215323151951499115134151941521115219152461526415249151661536515507157801601716222																	
80	13598135131339113090132161307612794124941226812185122631251112837131471332013237135991385514114																	
85	116811218411927110981178612339127841310013278133311325113077127601230411720110011119101228812373																	

Table 2. Average Luminance(cd/sq.m.) for defined C plane, Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		Maximum Calculated	Specified Maximum	Maximum Calculated	Specified Maximum
Category 1	55 to 90	23280	200	---	500
Category 2	65 to 90	20070	200	---	500
Category 3	75 to 90	16222	200	---	500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match



Isolux Diagram		
Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm		
NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	800	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.008	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:2001 Average Luminance

G deg	C plane (deg)																	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
55	22940226152254622496224962244022431224352245322466225112255022611226592273322809229232306023280																	
60	21377210852101021001208542084520819207742074520736207822086720964210642114921247214582149421740																	
65	19694194911927819195191371907519056190691908019084191191916019176192411940519511196471984220070																	
70	17830175091744017317172211722817128169861688016848169291707517258173921738817629177631796118211																	
75	15782154721538215323151951499115134151941521115219152461526415249151661536515507157801601716222																	
80	13598135131339113090132161307612794124941226812185122631251112837131471332013237135991385514114																	
85	11681121841192711098117861233912784131001327813331132511307712760123041172011001119101228812373																	

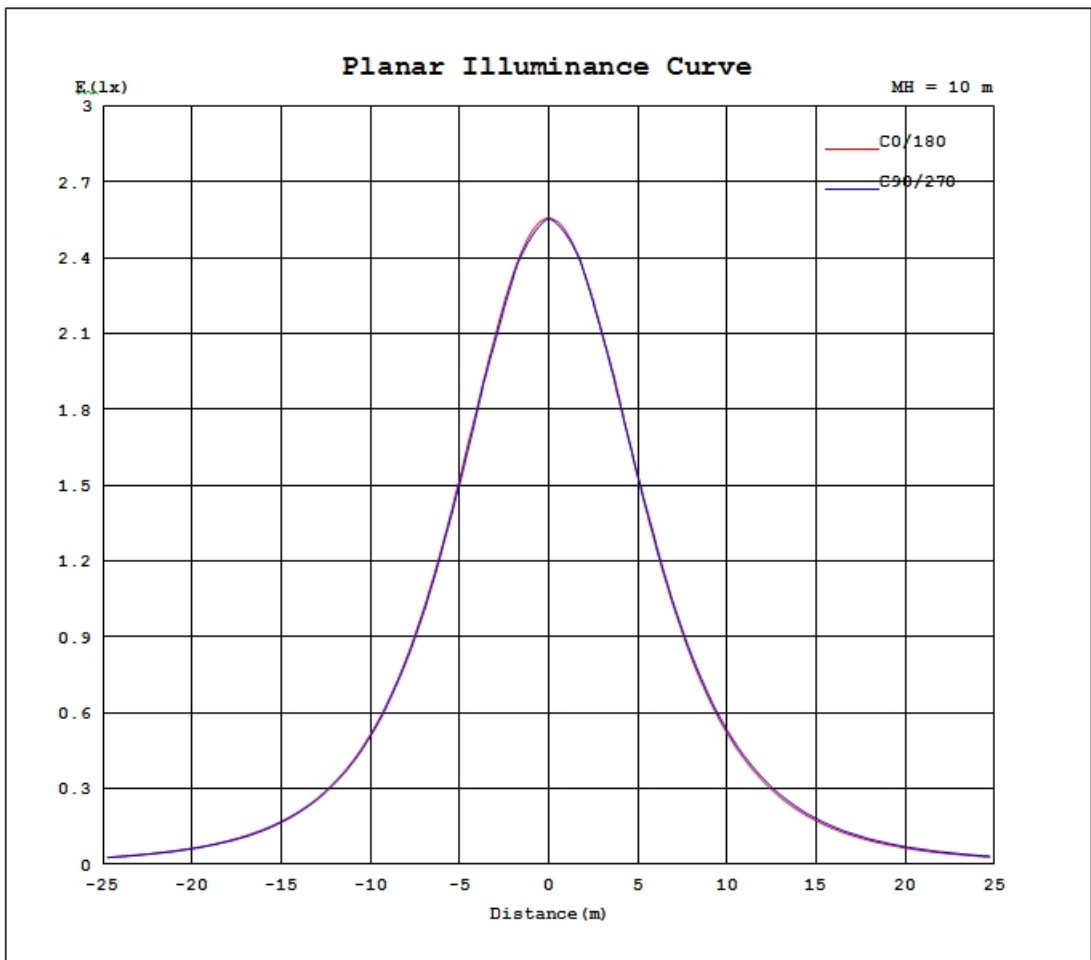
Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

range (deg)	Maximum measured	Average Luminance(cd/sq.m)			
		Maximum limit for screen type & software category used			
		Type I,II screen Some neg.s'ware	Type I,II screen Only pos.s'ware	Type III screen Some neg.s'ware	Type III screen Only pos.s'ware
55 to 90	23280	1000	1500	200	500
65 to 90	20070	1000	1500	200	500

Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

No match

Planar Illuminance Curve





Luminous Distribution Intensity Data		
Test: U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm		
NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

Table--1 UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256
5	254	254	253	253	253	253	253	252	252	252	252	252	252	252	252	252	252	252	252
10	249	249	248	248	248	247	247	247	247	247	248	248	248	248	248	248	248	249	249
15	241	241	240	240	239	239	240	240	240	240	240	240	239	239	239	239	239	239	239
20	231	230	229	229	229	229	230	229	229	228	228	229	229	229	229	229	230	230	230
25	218	217	216	216	216	216	215	215	215	216	216	216	216	215	215	215	215	215	215
30	202	201	200	200	200	200	200	200	201	200	200	199	199	200	200	200	200	201	201
35	184	183	183	183	182	182	183	182	182	182	182	183	182	182	182	182	182	182	182
40	166	164	164	164	163	164	163	163	163	163	163	163	163	163	163	163	164	164	164
45	146	144	145	144	144	144	143	144	143	143	143	144	144	143	143	143	143	143	143
50	125	124	124	124	124	123	124	123	123	124	123	123	123	123	123	123	123	123	123
55	105	104	104	104	103	104	103	103	103	103	103	103	103	103	103	103	103	103	103
60	85.5	84.6	84.3	84.1	84.0	83.8	84.0	83.6	83.4	83.4	83.4	83.3	83.3	83.2	83.1	83.1	83.0	83.0	82.9
65	66.6	65.8	65.9	65.3	65.2	65.2	64.9	64.8	64.7	64.6	64.5	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5
70	48.8	48.0	47.9	47.8	47.7	47.5	47.4	47.3	47.1	47.2	47.1	47.0	46.9	46.7	46.5	46.3	46.2	46.1	46.1
75	32.7	32.3	32.0	32.1	31.8	31.7	31.7	31.7	31.5	31.1	31.0	31.2	31.3	31.4	31.5	31.5	31.5	31.5	31.5
80	18.9	18.7	18.8	18.7	18.6	18.4	18.2	18.3	18.4	18.3	18.2	18.0	17.8	17.6	17.4	17.2	17.0	16.9	16.9
85	8.14	8.39	8.50	8.37	8.32	8.07	7.74	7.99	8.22	8.42	8.60	8.77	8.91	9.04	9.13	9.21	9.26	9.28	9.29
90	0.70	2.44	2.37	2.25	2.11	1.99	1.91	1.85	1.81	1.79	1.77	1.75	1.73	1.72	1.71	1.70	1.68	1.67	1.66



Luminous Distribution Intensity Data

Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm

NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

Table--2 UNIT: cd

C(DEC) ψ (DEC)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256
5	252	252	252	252	252	252	252	253	253	253	253	253	253	253	254	254	254	254	254
10	249	249	249	249	248	248	248	248	248	248	248	248	248	248	248	249	249	250	249
15	239	239	239	240	240	240	240	241	241	241	241	241	240	240	241	241	241	242	242
20	230	230	230	230	229	229	229	229	229	230	230	231	231	230	230	230	231	232	231
25	215	215	216	216	216	216	217	217	217	216	216	217	218	218	217	217	218	219	218
30	201	201	201	200	200	200	200	200	201	202	201	201	201	202	202	202	202	203	203
35	182	182	182	183	183	183	184	183	183	183	184	184	184	184	185	185	185	186	185
40	164	164	164	164	164	164	164	164	165	165	165	165	165	165	166	166	166	167	167
45	144	144	144	144	144	144	144	144	145	145	146	145	145	146	146	147	146	147	147
50	123	123	124	124	124	124	124	124	125	125	125	125	125	126	126	126	127	127	127
55	103	103	103	103	104	104	104	104	104	104	105	105	105	105	106	106	106	107	107
60	83.0	83.1	83.3	83.5	83.7	83.9	84.1	84.3	84.4	84.6	84.7	85.0	85.1	85.8	85.6	86.0	86.7	87.0	87.5
65	64.6	64.6	64.7	64.8	64.8	64.8	64.8	65.1	65.3	65.6	65.9	66.0	66.2	66.4	67.0	67.1	67.8	67.9	68.6
70	46.2	46.3	46.5	46.7	47.0	47.2	47.4	47.6	47.6	47.6	47.9	48.2	48.5	48.6	48.9	49.1	49.5	49.8	50.3
75	31.5	31.6	31.6	31.6	31.6	31.6	31.5	31.4	31.4	31.8	32.0	32.1	32.3	32.7	32.7	33.2	33.2	33.6	33.9
80	17.0	17.0	17.2	17.4	17.6	17.8	18.1	18.3	18.4	18.5	18.5	18.4	18.7	18.9	19.1	19.2	19.4	19.6	19.9
85	9.28	9.24	9.19	9.12	9.02	8.90	8.75	8.58	8.39	8.17	7.94	7.67	8.03	8.30	8.40	8.57	8.64	8.63	8.92
90	1.65	1.65	1.66	1.67	1.67	1.68	1.68	1.69	1.70	1.72	1.76	1.81	1.89	2.00	2.14	2.26	2.34	1.27	1.98

Luminous Distribution Intensity Data

Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm

NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

C(DEC) \ Ψ (DEC)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256
5	254	254	254	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253
10	249	249	249	249	249	249	249	249	249	250	250	250	250	250	250	250	250	250	250
15	241	241	241	242	242	242	243	243	242	242	242	242	242	242	242	242	242	242	242
20	231	231	231	232	233	232	232	232	232	232	232	232	233	233	233	233	233	233	233
25	218	219	219	220	219	219	219	220	220	220	220	220	220	219	219	219	219	219	219
30	203	204	204	204	204	204	205	204	204	204	205	205	205	205	206	205	205	205	205
35	186	187	186	186	187	187	187	187	188	188	188	188	188	188	188	188	188	188	187
40	167	168	167	168	168	168	169	169	169	169	169	169	170	170	170	170	170	170	170
45	148	148	148	148	149	150	149	149	150	150	150	150	151	151	151	151	151	150	150
50	128	128	128	128	129	129	129	130	130	130	131	131	131	131	131	131	131	131	131
55	107	108	108	109	109	109	110	110	110	111	111	111	112	112	112	112	112	112	111
60	87.5	87.8	88.8	88.7	89.2	89.7	90.3	90.9	91.2	91.4	91.7	91.8	91.9	92.0	92.0	92.0	92.0	91.9	91.8
65	68.6	69.3	69.4	69.9	70.6	71.2	71.5	71.9	72.1	72.4	72.8	73.0	73.2	73.4	73.5	73.5	73.5	73.4	73.3
70	50.7	51.1	51.6	52.4	52.8	53.1	53.5	54.0	54.4	54.7	54.8	55.0	55.0	55.0	55.0	55.0	55.0	54.9	54.9
75	34.5	34.8	35.5	35.9	36.3	36.8	37.1	37.3	37.6	38.1	38.5	38.8	39.0	39.1	39.2	39.3	39.3	39.2	39.1
80	20.3	20.9	21.3	21.7	21.9	22.4	22.9	23.2	23.4	23.5	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.5	23.6
85	9.29	9.61	9.94	10.1	10.2	10.7	11.2	11.6	12.0	12.3	12.6	12.8	13.0	13.2	13.3	13.4	13.4	13.4	13.3
90	2.08	2.16	2.25	2.33	2.43	2.52	2.63	2.73	2.82	2.90	2.98	3.05	3.11	3.15	3.19	3.21	3.22	3.22	3.20

Luminous Distribution Intensity Data		
Test:U:219.2V I:0.0890A P:9.440W PF:0.4830 LampFlux:800x1 lm		
NAME: MZLD-09007	NAME: MZLD-09007	NAME: MZLD-09007
DIM.: 0.145m	DIM.: 0.145m	DIM.: 0.145m
MFR.: Mazzetti	MFR.: Mazzetti	MFR.: Mazzetti

Table--4 UNIT: cd

C (DEG) ψ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256				
5	253	253	253	253	253	253	253	253	253	253	253	253	253	253	254	254			
10	250	250	250	249	249	249	249	248	248	248	248	248	248	248	249				
15	242	242	241	242	242	242	242	242	241	241	241	240	240	240	241				
20	233	232	232	232	231	231	231	231	231	231	231	230	230	230	230				
25	219	219	219	219	219	219	219	218	218	218	218	218	217	217	217				
30	205	204	204	204	203	203	203	204	203	202	202	202	202	201	201				
35	187	187	187	187	187	186	186	186	186	186	185	184	185	184	184				
40	169	169	169	168	168	168	168	167	167	167	167	166	165	165	165				
45	150	150	150	149	149	149	148	148	148	147	147	147	146	146	145				
50	131	130	130	130	129	129	129	128	127	127	127	126	126	125	125				
55	111	111	111	110	110	109	109	108	108	107	107	106	106	105	105				
60	91.7	91.5	91.3	91.0	90.6	90.2	89.7	89.1	88.5	88.2	87.3	86.8	86.3	85.8	85.3				
65	73.1	72.9	72.6	72.3	71.9	71.5	71.1	70.6	70.0	69.3	68.9	68.1	67.5	67.5	66.6				
70	54.8	54.7	54.6	54.4	54.2	53.8	53.4	52.9	52.4	51.8	51.2	50.6	49.9	49.3	48.8				
75	39.0	38.8	38.5	38.2	37.7	37.2	36.8	36.6	36.3	35.8	35.2	34.6	34.0	33.3	32.9				
80	23.6	23.6	23.5	23.5	23.4	23.2	22.9	22.6	22.2	21.6	21.3	20.9	20.3	19.7	19.1				
85	13.2	13.0	12.8	12.6	12.3	11.9	11.5	11.1	10.7	10.2	10.1	9.81	9.43	9.09	8.57				
90	3.18	3.14	3.09	3.02	2.95	2.87	2.77	2.68	2.57	2.47	2.37	2.27	2.19	2.11	1.95				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH

ψ Range: 0 - 90DEG
 ψ Interval: 0.5DEG

Temperature:22DEG
 Operators:

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.262
 Humidity:65.0%
 Test Distance:5.000m [K=1.0000]
 Remarks:

Test Date:2013-05-31