

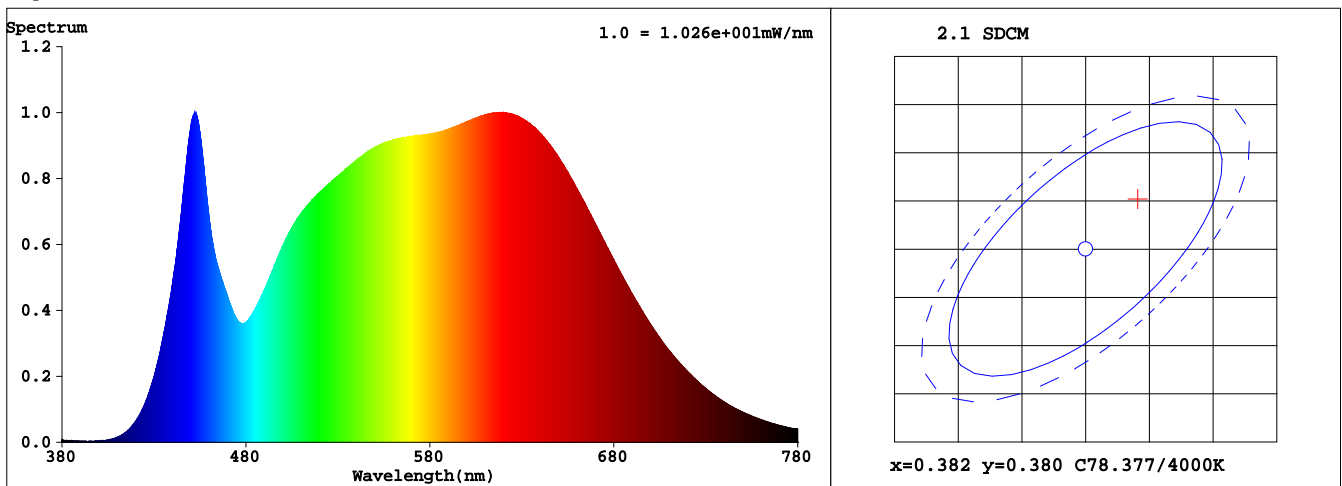
Spectrum Test Report

Sample : Date : 2017-04-13 23:59:16
Specification : Standardtus :
Sample No. : MR16-8-940-25D-DIM Instrument : HaasSuite(EVERFINE)
Manufacturer : RAB Lighting Inc Test by :
Remark :

Test Condition

Temperature : 24.5Deg RH : 30.1%
WL Range : 380nm-780nm IP : 52086 (79%)
Test Mode : Fast Test T : 249 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3859$ $y = 0.3848$ / $u' = 0.2255$ $v' = 0.5059$ ($duv=2.17e-03$)

CCT= 3916K Prcp WL: $L_d=578.3nm$ Purity=31.3%

Peak WL: $L_p=620nm$ FWHM: =192.0nm Ratio:R=21.1% G=75.5% B=3.5%

Render Index: $R_a = 92.2$ TM30:Rf=91 Rg=99

R1 =92 R2 =94 R3 =94 R4 =93 R5 =91 R6 =91 R7 =96

R8 =88 R9 =67 R10=84 R11=92 R12=72 R13=92 R14=96 R15=90

LEVEL:OUT WHITE:ANSI_4000K

Photometric & Radiometric Parameters

Flux = 642.77 lm Eff. : 80.75 lm/W $F_e = 2.2091 W$

Flux of emitted photons($\mu mol/s$):10.667 Fluo. and blue light ratio:6.218 Fluorescent eff.:219.0

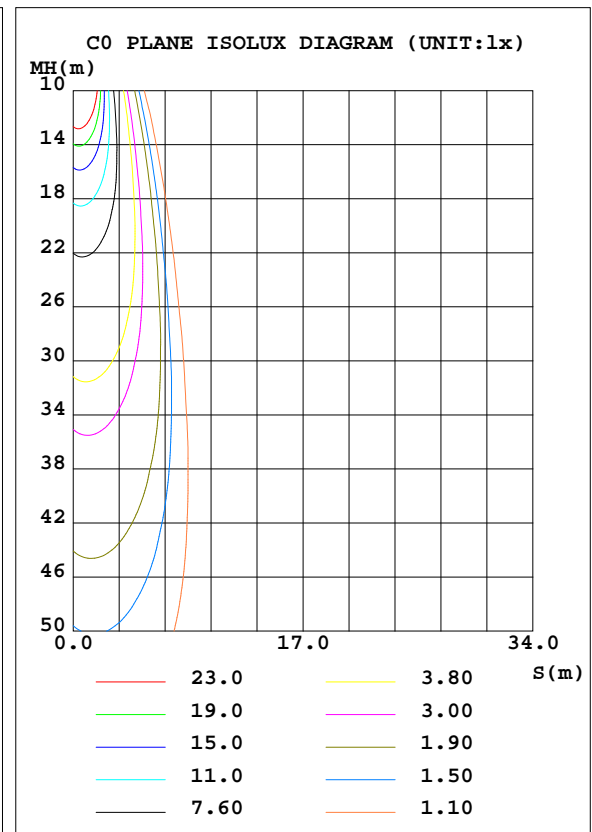
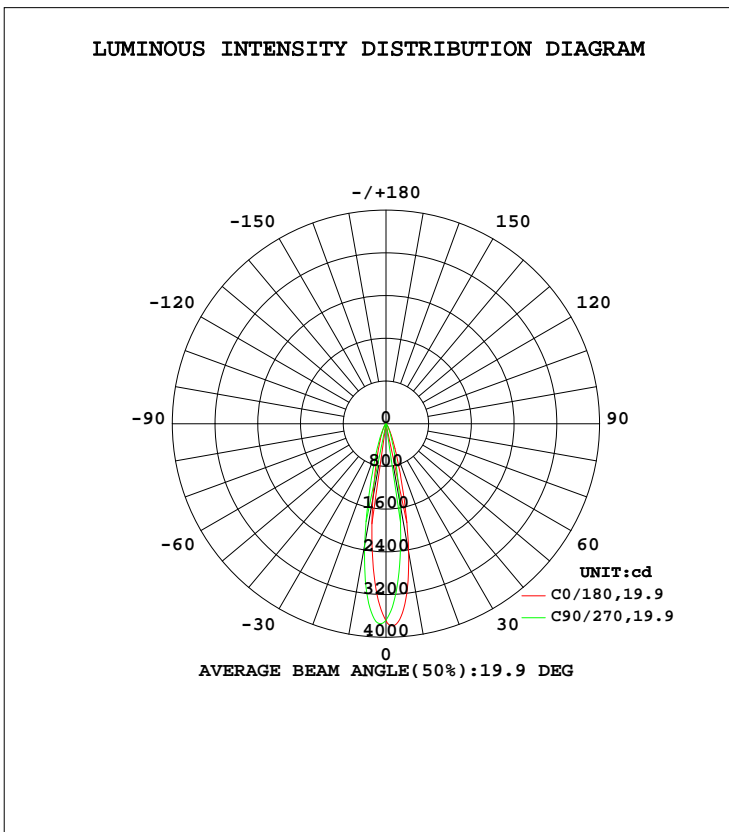
Electrical parameters

V = 12.04 V I = 0.7220 A P = 7.960 W PF = 0.9157

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:11.99V I:0.7287A P:8.020W PF:0.9179 Freq:50.00Hz Lamp Flux:682.815x1 lm		
NAME: MR16-8-940-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.14 lm/W			
MODEL		I _{max} (cd)	3851	S/MH(C0/180)	0.28
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.38
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	682.81	η UP, DN(C0-180)	0.1,46.1
NOMINAL FLUX(lm)	682.815	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,53.7
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	12	η down(%)	99.8	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:
 Test Date:2017-04-13

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:29.6%
 Test Distance:1.197m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

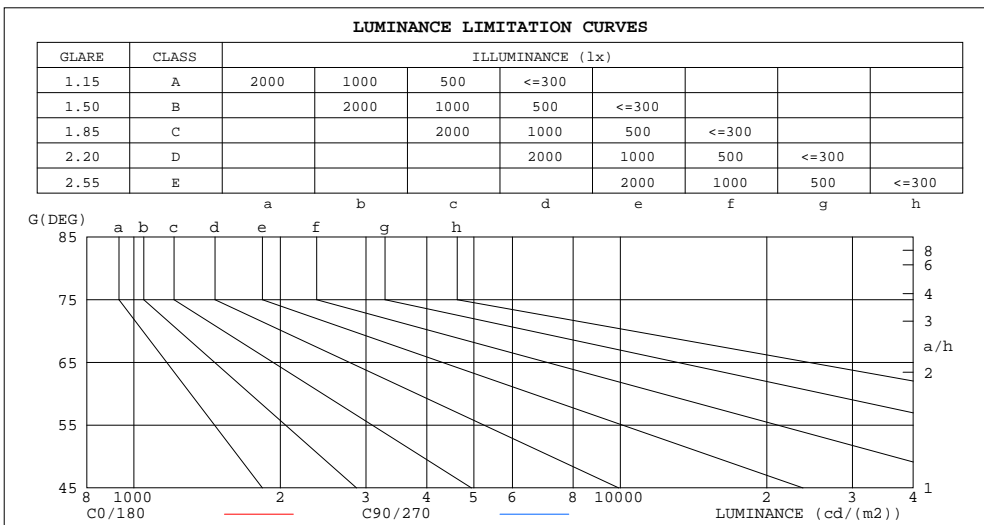
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	2449	1931	1485	1311	1417	1765	2301	2638	0- 10	258.2	258.2	37.8,37.8
20	495.6	399.7	318.6	286.0	311.7	372.7	466.5	536.6	10- 20	254.5	512.7	75.1,75.1
30	120.0	109.9	95.13	84.81	92.37	103.4	112.0	117.7	20- 30	94.74	607.5	89,89
40	37.22	35.64	28.74	25.96	28.03	31.79	33.94	35.04	30- 40	37.66	645.1	94.5,94.5
50	15.14	13.85	13.00	11.93	12.16	13.44	15.63	15.45	40- 50	15.73	660.9	96.8,96.8
60	8.440	8.433	8.185	7.544	7.661	8.217	8.930	8.516	50- 60	9.441	670.3	98.2,98.2
70	5.287	5.037	4.627	4.198	4.300	4.768	5.384	5.496	60- 70	6.462	676.8	99.1,99.1
80	2.442	2.067	1.583	1.294	1.379	1.808	2.342	2.639	70- 80	3.555	680.3	99.6,99.6
90	0.3198	0.1630	0.0781	0.0682	0.0695	0.0686	0.2156	0.3334	80- 90	0.9552	681.3	99.8,99.8
100	0.0803	0.0808	0.0867	0.0890	0.0917	0.0876	0.0843	0.0808	90-100	0.0937	681.4	99.8,99.8
110	0.1101	0.1130	0.1190	0.1251	0.1250	0.1207	0.1146	0.1110	100-110	0.1057	681.5	99.8,99.8
120	0.1499	0.1527	0.1651	0.1776	0.1796	0.1738	0.1575	0.1507	110-120	0.1360	681.6	99.8,99.8
130	0.2546	0.2781	0.3830	3.999	1.356	0.3618	0.2858	0.2446	120-130	0.2226	681.8	99.9,99.9
140	0.3648	0.3442	0.3153	0.3365	0.3188	0.3642	0.4052	0.3023	130-140	0.5419	682.4	99.9,99.9
150	0.2835	0.2691	0.2761	0.2662	0.2816	0.2719	0.2894	0.2942	140-150	0.1941	682.6	100,100
160	0.2580	0.2786	0.3031	0.3154	0.3224	0.3088	0.2869	0.2860	150-160	0.1294	682.7	100,100
170	0.2796	0.3038	0.3200	0.3562	0.3909	0.3605	0.3534	0.2980	160-170	0.0943	682.8	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0234	682.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:
 Test Date:2017-04-13

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:29.6%
 Test Distance:1.197m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:11.99V I:0.7287A P:8.020W PF:0.9179 Freq:50.00Hz Lamp Flux:682.815x1 lm		
NAME: MR16-8-940-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	14	6
80	14	9
75	15	12
70	15	14
65	16	15
60	17	16
55	18	18
50	24	20
45	31	26

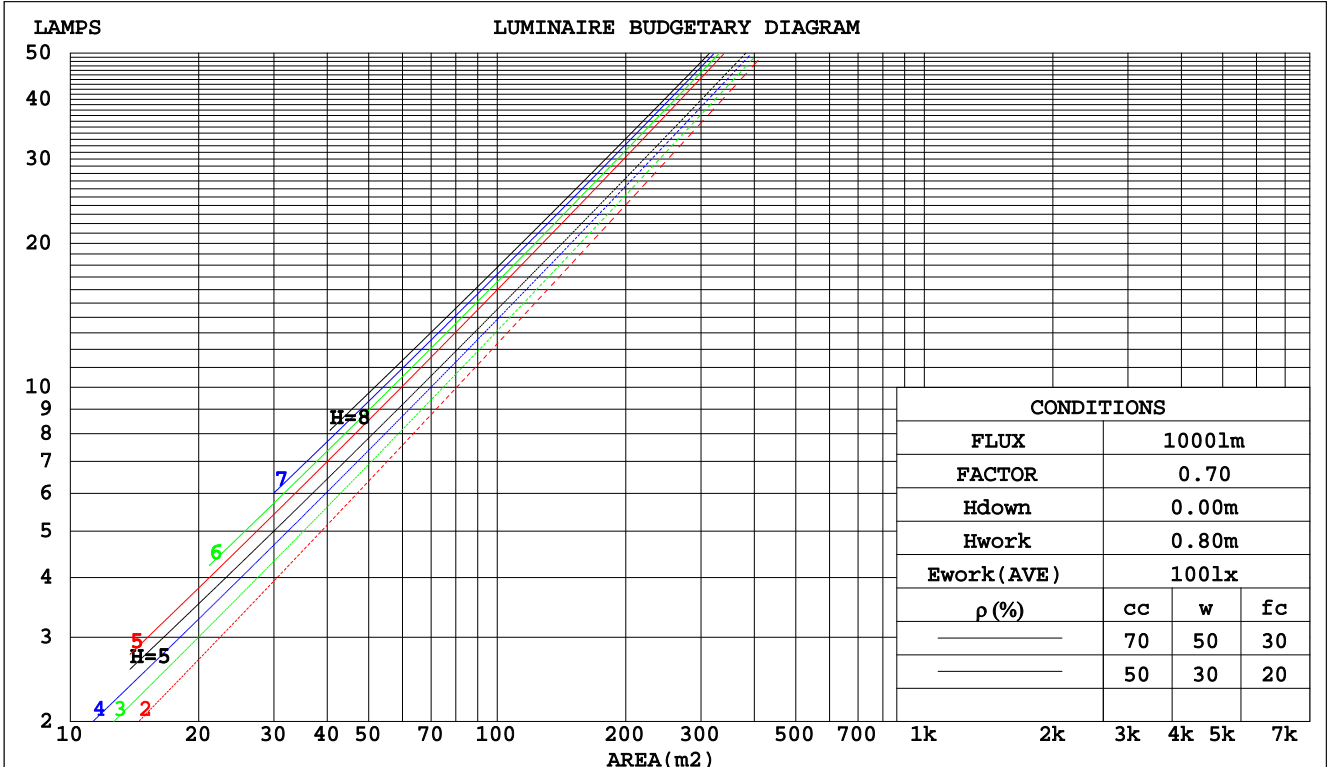
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators:
 Test Date: 2017-04-13

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity: 29.6%
 Test Distance: 1.197m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:11.99V I:0.7287A P:8.020W PF:0.9179 Freq:50.00Hz Lamp Flux:682.815x1 lm		
NAME: MR16-8-940-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.07	1.03	1.01	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.90	.88
4.0	.97	.93	.90	.96	.92	.89	.94	.91	.88	.92	.90	.87	.91	.88	.86	.85
5.0	.94	.89	.86	.93	.89	.86	.91	.88	.85	.90	.87	.84	.88	.86	.83	.82
6.0	.90	.86	.83	.90	.85	.82	.88	.85	.82	.87	.84	.81	.86	.83	.81	.80
7.0	.87	.83	.80	.87	.82	.80	.85	.82	.79	.84	.81	.79	.83	.81	.78	.77
8.0	.84	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
9.0	.82	.78	.75	.82	.77	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.73
10.0	.80	.76	.73	.79	.75	.73	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators:
 Test Date: 2017-04-13

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity: 29.6%
 Test Distance: 1.197m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:11.99V I:0.7287A P:8.020W PF:0.9179 Freq:50.00Hz Lamp Flux:682.815x1 lm		
NAME: MR16-8-940-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.147	.084	.026	.140	.080	.025	.128	.073	.023	.116	.067	.021	.105	.061	.020	
2.0	.136	.075	.023	.131	.072	.022	.120	.067	.021	.111	.062	.019	.102	.058	.018	
3.0	.127	.067	.020	.122	.065	.020	.113	.061	.019	.105	.058	.018	.098	.054	.017	
4.0	.118	.062	.018	.115	.060	.018	.107	.057	.017	.100	.054	.016	.094	.051	.016	
5.0	.111	.057	.016	.108	.055	.016	.101	.053	.016	.096	.050	.015	.090	.048	.014	
6.0	.105	.053	.015	.102	.051	.015	.096	.049	.014	.091	.047	.014	.087	.046	.014	
7.0	.099	.049	.014	.097	.048	.014	.092	.046	.013	.087	.045	.013	.083	.043	.013	
8.0	.094	.046	.013	.092	.045	.013	.088	.044	.013	.084	.042	.012	.080	.041	.012	
9.0	.090	.043	.012	.088	.043	.012	.084	.042	.012	.080	.040	.012	.077	.039	.011	
10.0	.086	.041	.011	.084	.040	.011	.081	.039	.011	.077	.038	.011	.074	.037	.011	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.171	.159	.149	.146	.137	.128	.100	.094	.089	.058	.054	.052	.018	.018	.017	
2.0	.153	.134	.119	.131	.116	.102	.090	.080	.071	.052	.047	.042	.017	.015	.014	
3.0	.139	.115	.096	.119	.099	.083	.082	.069	.059	.047	.040	.035	.015	.013	.011	
4.0	.126	.100	.080	.108	.086	.069	.075	.060	.049	.043	.035	.029	.014	.011	.009	
5.0	.116	.088	.067	.100	.076	.058	.069	.053	.041	.040	.031	.024	.013	.010	.008	
6.0	.107	.078	.057	.092	.067	.049	.064	.047	.035	.037	.028	.021	.012	.009	.007	
7.0	.100	.070	.049	.086	.060	.042	.059	.042	.030	.034	.025	.018	.011	.008	.006	
8.0	.093	.063	.042	.080	.055	.037	.055	.038	.026	.032	.023	.016	.010	.007	.005	
9.0	.087	.057	.037	.075	.050	.032	.052	.035	.023	.030	.021	.014	.010	.007	.005	
10.0	.082	.052	.033	.071	.046	.029	.049	.032	.020	.029	.019	.012	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:
 Test Date:2017-04-13

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:29.6%
 Test Distance:1.197m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:11.99V I:0.7287A P:8.020W PF:0.9179 Freq:50.00Hz Lamp Flux:682.815x1 lm										
NAME: MR16-8-940-25D-DIM					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: RAB Lighting Inc					SUR.:			Shielding Angle:		
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 = 2H y = 2H	-6.9	-6.2	-6.7	-6.1	-5.9	-7.6	-6.9	-7.4	-6.8	-6.6
3H	-6.2	-5.6	-6.0	-5.4	-5.2	-6.9	-6.3	-6.7	-6.1	-5.9
4H	-5.9	-5.2	-5.6	-5.0	-4.8	-6.6	-6.0	-6.4	-5.8	-5.6
6H	-5.6	-5.0	-5.3	-4.8	-4.5	-6.5	-5.9	-6.2	-5.6	-5.4
8H	-5.5	-4.9	-5.2	-4.6	-4.4	-6.4	-5.9	-6.1	-5.6	-5.4
12H	-5.4	-4.8	-5.1	-4.6	-4.3	-6.4	-5.9	-6.1	-5.6	-5.4
4H 2H	-6.7	-6.1	-6.5	-5.9	-5.7	-7.3	-6.7	-7.1	-6.5	-6.3
3H	-5.8	-5.3	-5.5	-5.0	-4.7	-6.4	-5.9	-6.1	-5.6	-5.4
4H	-5.3	-4.8	-5.0	-4.5	-4.2	-6.0	-5.5	-5.7	-5.2	-4.9
6H	-4.9	-4.5	-4.6	-4.2	-3.8	-5.8	-5.3	-5.4	-5.0	-4.7
8H	-4.8	-4.4	-4.4	-4.0	-3.6	-5.7	-5.3	-5.3	-5.0	-4.6
12H	-4.7	-4.3	-4.3	-3.9	-3.5	-5.7	-5.3	-5.3	-5.0	-4.6
8H 4H	-5.2	-4.8	-4.9	-4.5	-4.1	-5.9	-5.5	-5.5	-5.1	-4.8
6H	-4.7	-4.4	-4.3	-4.0	-3.6	-5.5	-5.2	-5.1	-4.8	-4.4
8H	-4.5	-4.2	-4.1	-3.8	-3.3	-5.4	-5.1	-5.0	-4.7	-4.3
12H	-4.3	-4.1	-3.9	-3.6	-3.1	-5.4	-5.1	-4.9	-4.7	-4.2
12H 4H	-5.3	-4.9	-4.9	-4.5	-4.1	-5.9	-5.5	-5.5	-5.1	-4.8
6H	-4.7	-4.4	-4.3	-4.0	-3.6	-5.5	-5.2	-5.1	-4.8	-4.3
8H	-4.5	-4.2	-4.0	-3.8	-3.3	-5.4	-5.1	-4.9	-4.7	-4.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.6 / - 0.8				
1.5H	+ 1.7 / - 0.7					+ 1.3 / - 0.7				
2.0H	+ 0.9 / - 0.5					+ 0.8 / - 0.5				

CIE Pub.117, 682.8 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.3)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:
 Test Date:2017-04-13

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:29.6%
 Test Distance:1.197m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:11.99V I:0.7287A P:8.020W PF:0.9179 Freq:50.00Hz Lamp Flux:682.815x1 lm		
NAME: MR16-8-940-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

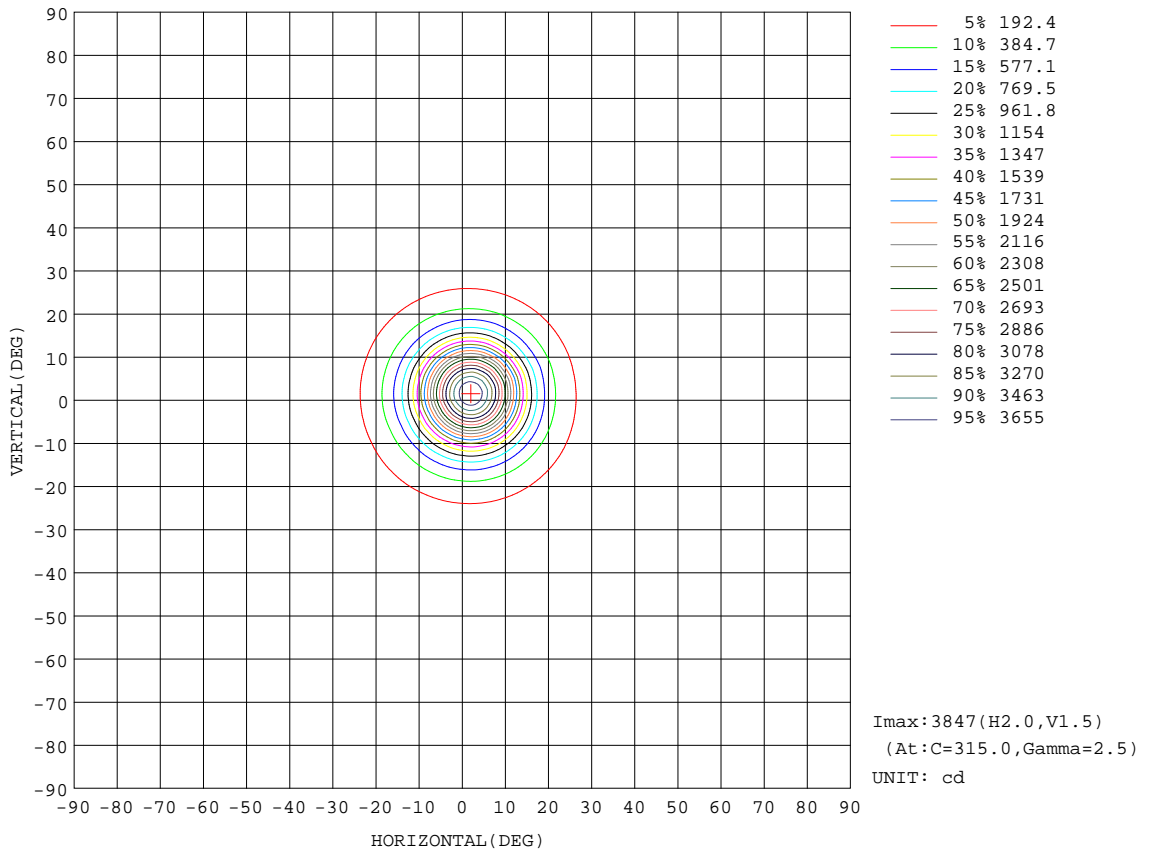
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	82	78	88	82	78	87	81	78	75
0.80	95	90	86	95	89	86	94	89	85	82
1.00	100	94	91	99	94	90	97	93	90	86
1.25	103	98	95	102	98	94	100	97	94	90
1.50	106	101	98	105	101	98	103	99	96	92
2.00	109	104	101	107	103	100	104	101	99	94
2.50	110	106	104	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:
 Test Date:2017-04-13

γ Range: 0 - 180DEG
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ISOCANDELA DIAGRAM

Test:U:11.99V I:0.7287A P:8.020W PF:0.9179 Freq:50.00Hz Lamp Flux:682.815x1 lm		
NAME: MR16-8-940-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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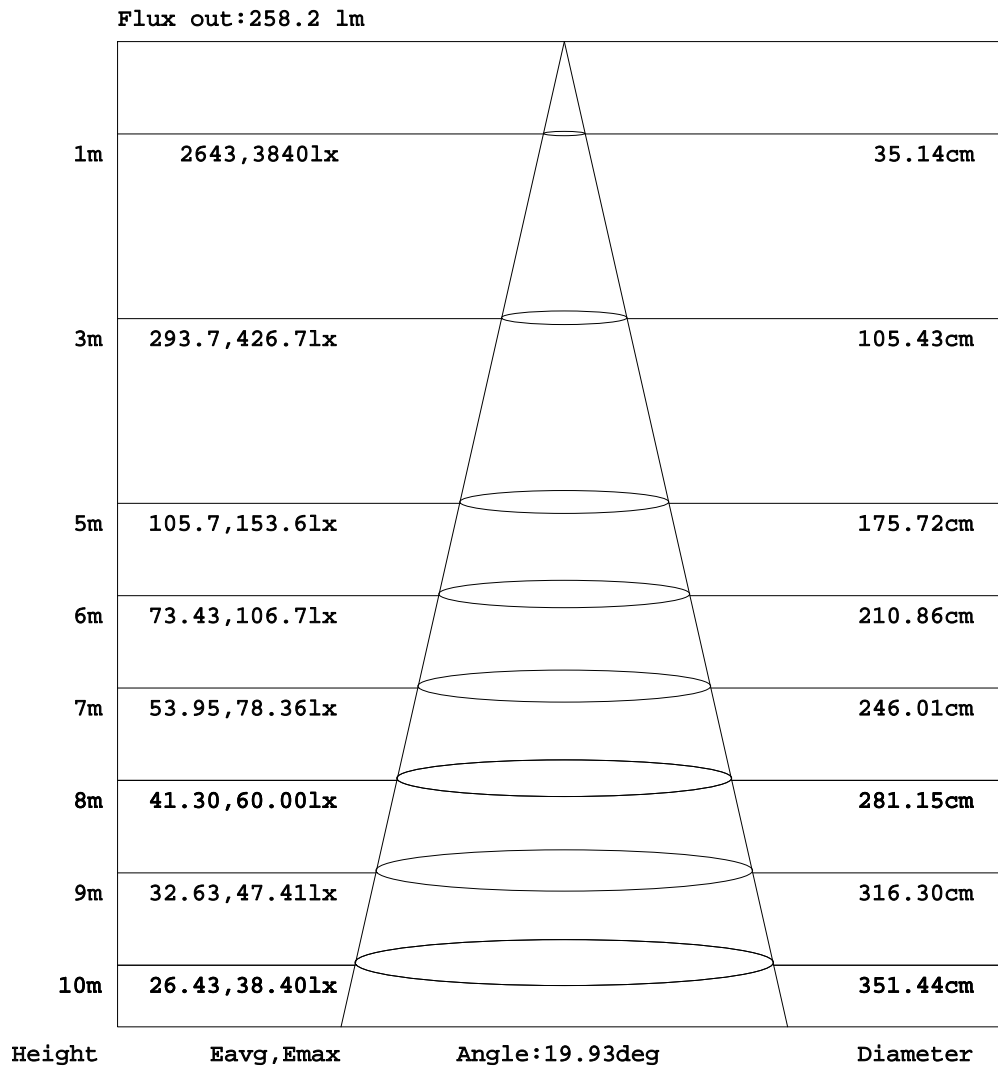


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 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity: 29.6%
 Test Distance: 1.197m [K=1.0000]
 Remarks:

AAI Figure

Test:U:11.99V I:0.7287A P:8.020W PF:0.9179 Freq:50.00Hz Lamp Flux:682.815x1 lm		
NAME: MR16-8-940-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:



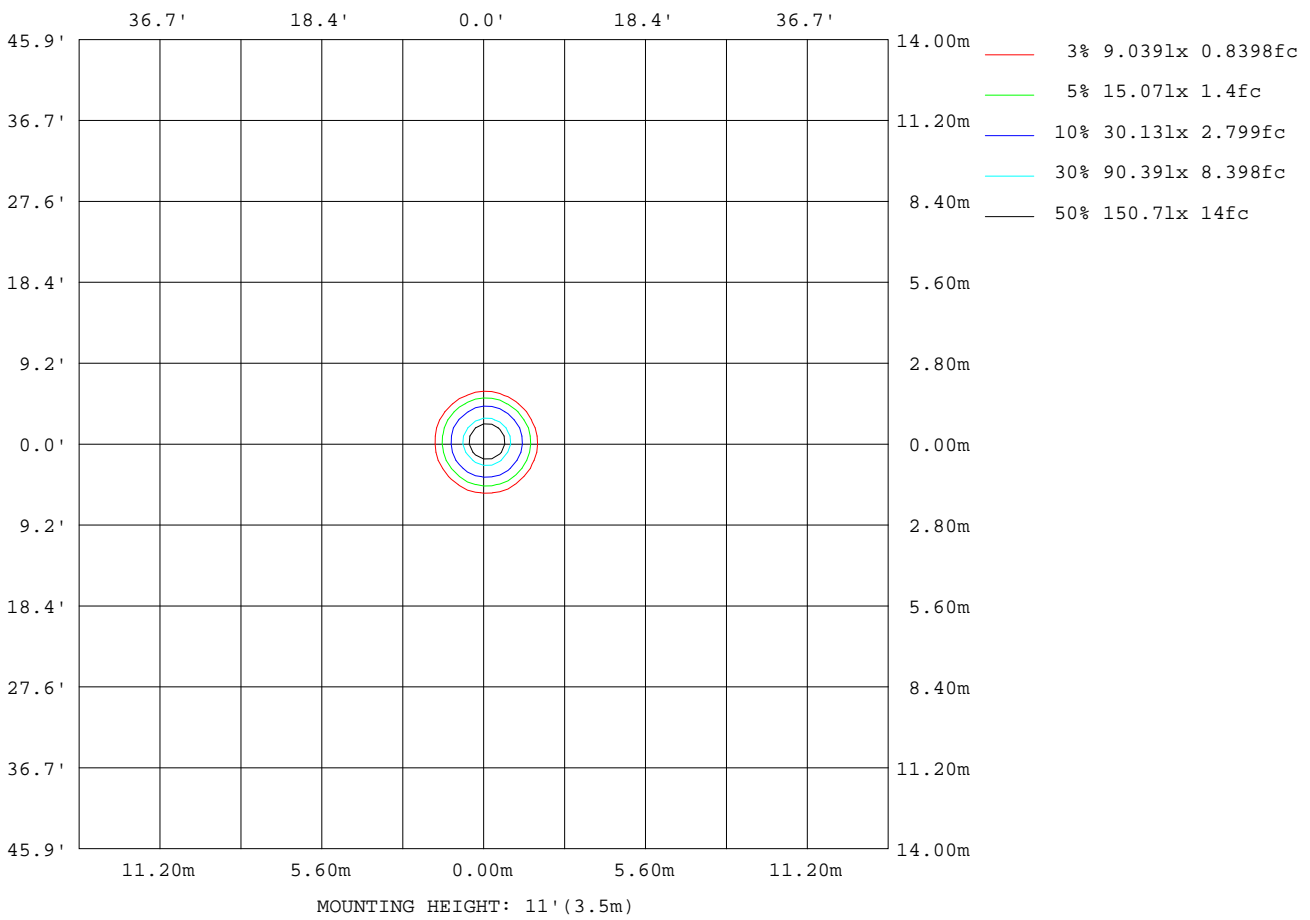
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:
 Test Date:2017-04-13

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:29.6%
 Test Distance:1.197m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:11.99V I:0.7287A P:8.020W PF:0.9179 Freq:50.00Hz Lamp Flux:682.815x1 lm		
NAME: MR16-8-940-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators:
 Test Date: 2017-04-13

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity: 29.6%
 Test Distance: 1.197m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:11.99V I:0.7287A P:8.020W PF:0.9179 Freq:50.00Hz Lamp Flux:682.815x1 lm		
NAME: MR16-8-940-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

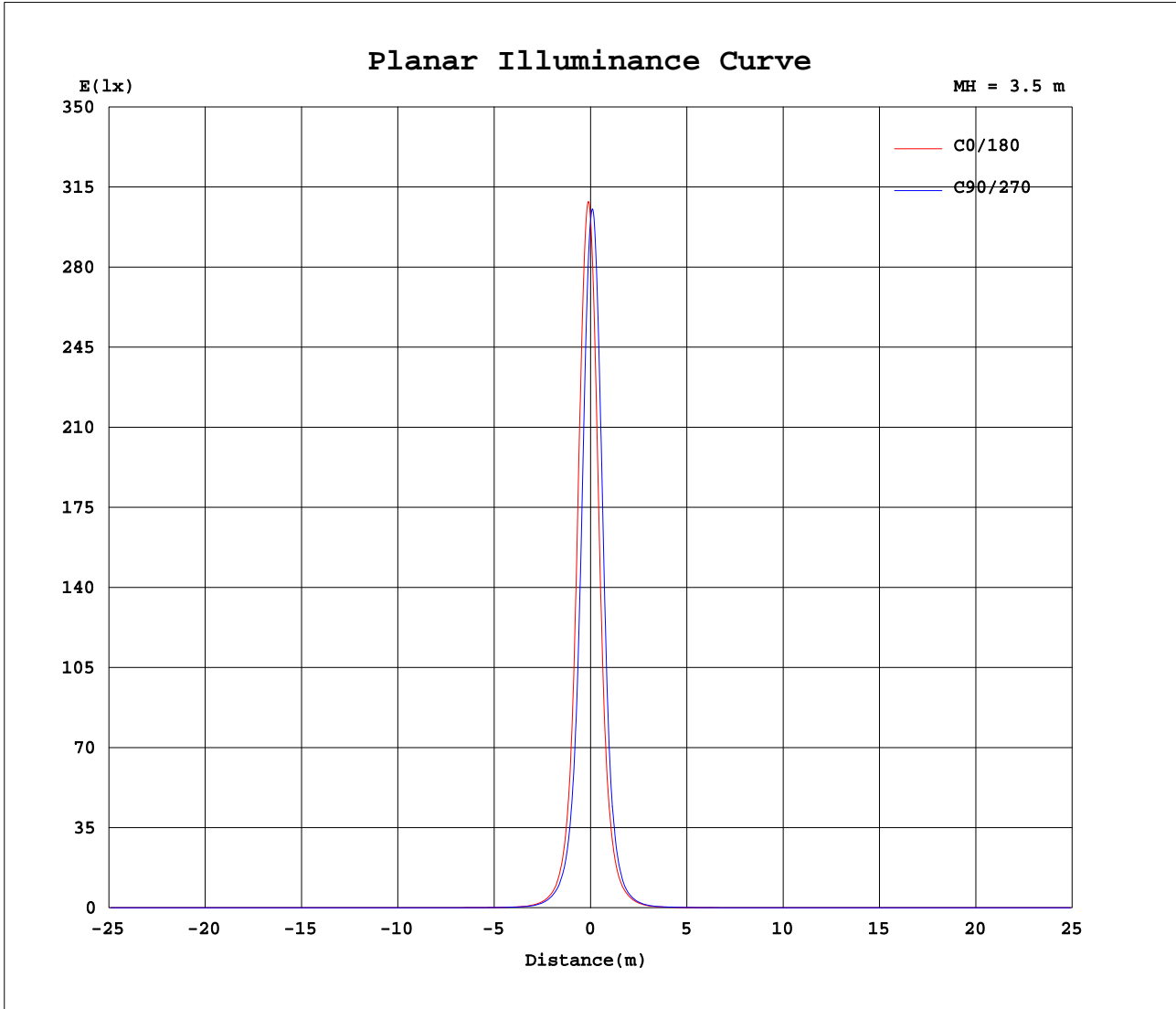
AvgL	cd/m2
L_0~180(65)av	15
L_0~180(75)av	13
L_0~180(85)av	9
L_90~270(65)av	16
L_90~270(75)av	13
L_90~270(85)av	9
L_45(65)av	15
L_45(75)av	13
L_45(85)av	9

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:
 Test Date:2017-04-13

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:29.6%
 Test Distance:1.197m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators:
 Test Date: 2017-04-13

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity: 29.6%
 Test Distance: 1.197m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:11.99V I:0.7287A P:8.020W PF:0.9179 Freq:50.00Hz Lamp Flux:682.815x1 lm		
NAME: MR16-8-940-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	3691	3687	3682	3681	3678	3675	3674	3677	3691	3687	3682	3681	3678	3675	3674	3677			
5	3554	3395	3189	2978	2795	2663	2600	2610	2725	2865	3056	3267	3467	3615	3681	3664			
10	2449	2210	1931	1674	1485	1364	1311	1323	1417	1558	1765	2029	2301	2518	2638	2626			
15	1146	1021	882	766	679	624	600	602	648	710	795	912	1054	1185	1262	1258			
20	496	452	400	354	319	296	286	288	312	338	373	413	466	514	537	543			
25	234	220	199	180	167	156	151	153	162	172	185	201	219	233	242	245			
30	120	117	110	102	95.1	88.7	84.8	86.7	92.4	98.2	103	108	112	115	118	121			
35	67.0	66.1	62.9	56.3	53.1	49.0	46.6	48.3	51.6	54.9	58.7	59.7	62.3	63.0	64.0	67.3			
40	37.2	37.3	35.6	31.0	28.7	26.8	26.0	26.4	28.0	29.9	31.8	32.6	33.9	34.1	35.0	37.5			
45	21.6	21.5	20.4	19.0	18.1	17.5	17.2	17.0	17.6	18.4	19.1	20.0	20.7	20.8	21.0	21.6			
50	15.1	14.7	13.8	13.4	13.0	12.3	11.9	11.9	12.2	12.7	13.4	14.5	15.6	15.4	15.5	15.5			
55	10.6	10.7	10.5	10.3	10.3	9.72	9.41	9.48	9.71	10.1	10.4	10.8	11.3	10.9	10.9	10.9			
60	8.44	8.56	8.43	8.21	8.18	7.86	7.54	7.61	7.66	7.95	8.22	8.38	8.93	8.56	8.52	8.66			
65	6.82	6.82	6.75	6.42	6.37	6.04	5.86	5.86	5.97	6.23	6.45	6.64	6.99	7.03	6.95	7.09			
70	5.29	5.22	5.04	4.77	4.63	4.36	4.20	4.15	4.30	4.55	4.77	5.06	5.38	5.52	5.50	5.55			
75	3.81	3.70	3.48	3.21	3.00	2.77	2.64	2.59	2.75	2.98	3.23	3.55	3.83	3.96	4.04	4.01			
80	2.44	2.29	2.07	1.80	1.58	1.40	1.29	1.26	1.38	1.57	1.81	2.10	2.34	2.51	2.64	2.60			
85	1.21	1.06	0.87	0.66	0.50	0.39	0.32	0.31	0.38	0.49	0.64	0.86	1.05	1.20	1.32	1.32			
90	0.32	0.26	0.16	0.09	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.13	0.22	0.28	0.33	0.36			
95	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07			
100	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08			
105	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.09			
110	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11			
115	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.14	0.14	0.13	0.13	0.13	0.13	0.13			
120	0.15	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.17	0.16	0.16	0.15	0.15	0.15			
125	0.19	0.19	0.20	0.20	0.22	0.23	0.24	0.25	0.23	0.22	0.24	0.23	0.21	0.19	0.19	0.19			
130	0.25	0.25	0.28	0.27	0.38	1.41	4.00	4.16	1.36	0.39	0.36	0.36	0.29	0.25	0.24	0.26			
135	2.00	0.62	0.32	0.28	0.27	0.31	0.31	0.32	0.30	0.31	0.36	0.49	0.63	1.05	3.54	4.33			
140	0.36	0.36	0.34	0.28	0.32	0.33	0.34	0.33	0.32	0.32	0.36	0.40	0.41	0.33	0.30	0.32			
145	0.31	0.29	0.31	0.27	0.29	0.29	0.29	0.29	0.29	0.29	0.31	0.32	0.34	0.32	0.30	0.34			
150	0.28	0.27	0.27	0.27	0.28	0.27	0.27	0.27	0.28	0.28	0.27	0.28	0.29	0.30	0.29	0.30			
155	0.27	0.26	0.27	0.28	0.27	0.27	0.28	0.29	0.28	0.28	0.28	0.27	0.27	0.28	0.29	0.28			
160	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.32	0.32	0.32	0.31	0.30	0.29	0.28	0.29	0.28			
165	0.26	0.28	0.32	0.34	0.35	0.37	0.39	0.39	0.40	0.40	0.38	0.36	0.34	0.33	0.32	0.31			
170	0.28	0.27	0.30	0.32	0.32	0.34	0.36	0.36	0.39	0.39	0.36	0.36	0.35	0.34	0.30	0.28			
175	0.21	0.20	0.20	0.20	0.21	0.21	0.20	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23			
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
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