

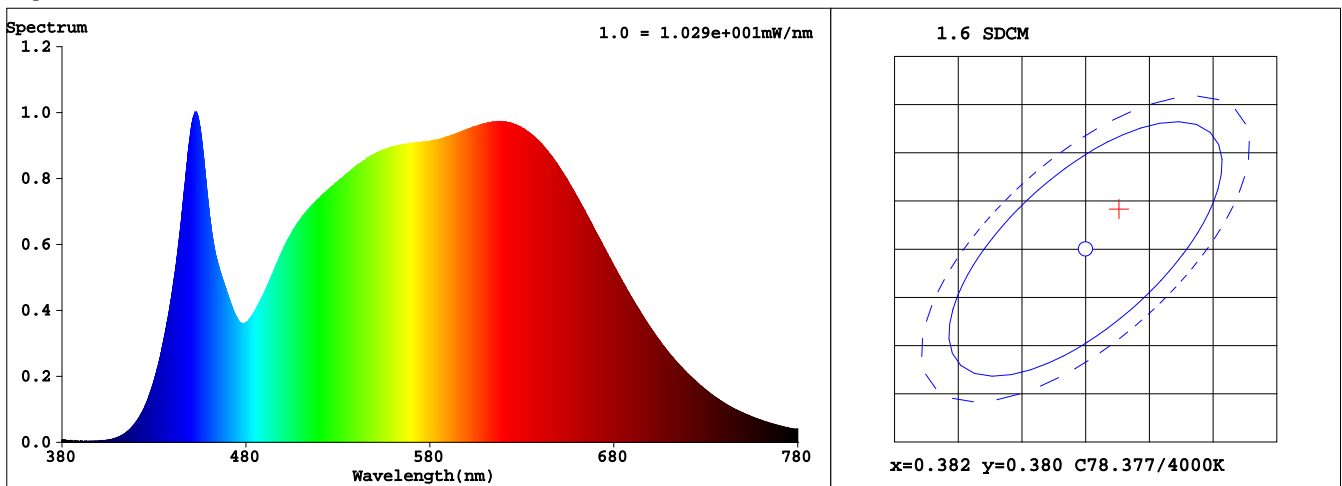
Spectrum Test Report

Sample : Date : 2017-04-14 01:26:39
Specification : Standardtus :
Sample No. : MR16-8-940-15D-DIM Instrument : HaasSuite(EVERFINE)
Manufacturer : RAB Lighting Inc Test by :
Remark :

Test Condition

Temperature : 24.3Deg RH : 30.1%
WL Range : 380nm-780nm IP : 52672 (80%)
Test Mode : Fast Test T : 258 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3844$ $y = 0.3837$ / $u' = 0.2249$ $v' = 0.5052$ ($duv=2.10e-03$)

CCT= 3947K Prcp WL: $L_d=578.2nm$ Purity=30.5%

Peak WL: $L_p=453nm$ FWHM: =25.8nm Ratio:R=21.0% G=75.5% B=3.5%

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

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

R8 =87 R9 =66 R10=85 R11=92 R12=72 R13=92 R14=96 R15=90

LEVEL:OUT WHITE:ANSI_4000K

Photometric & Radiometric Parameters

Flux = 629.82 lm Eff. : 79.93 lm/W $F_e = 2.1638 W$

Flux of emitted photons($\mu mol/s$):10.439 Fluo. and blue light ratio:6.110 Fluorescent eff.:216.2

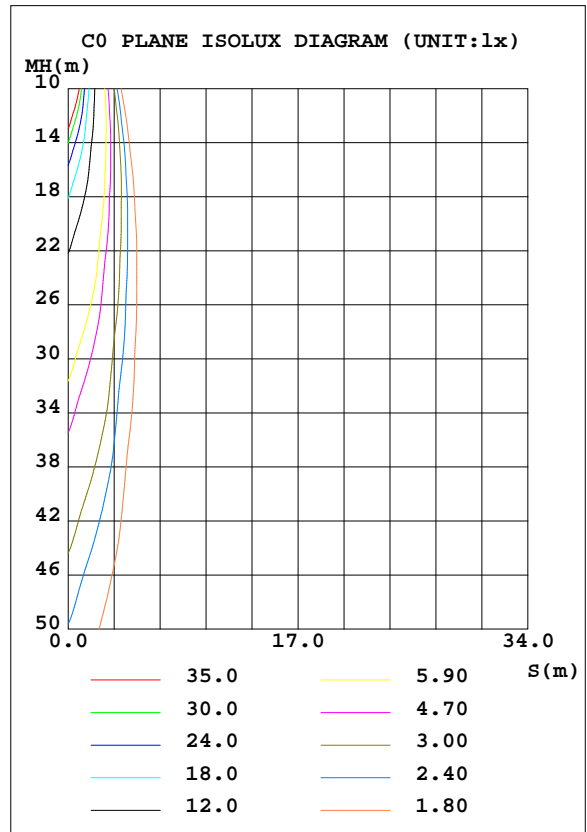
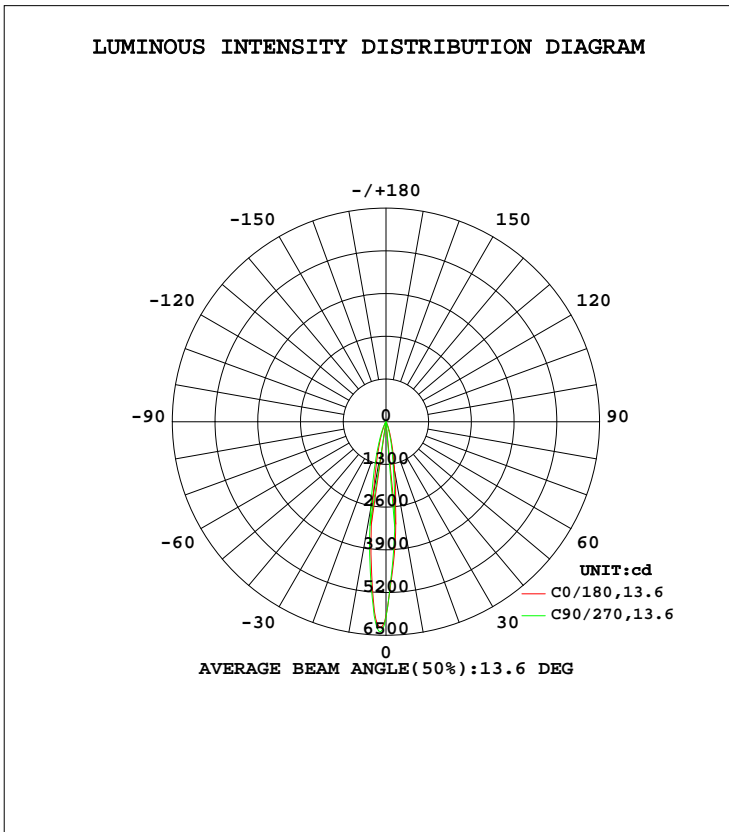
Electrical parameters

V = 12.04 V I = 0.7146 A P = 7.880 W PF = 0.9159

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:11.99V I:0.7285A P:8.020W PF:0.9182 Freq:50.00Hz Lamp Flux:679.345x1 lm		
NAME: MR16-8-940-15D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.71 lm/W			
MODEL		I _{max} (cd)	6904	S/MH(C0/180)	0.29
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.32
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	679.35	η UP, DN(C0-180)	0.1,37.2
NOMINAL FLUX(lm)	679.345	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,62.6
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:

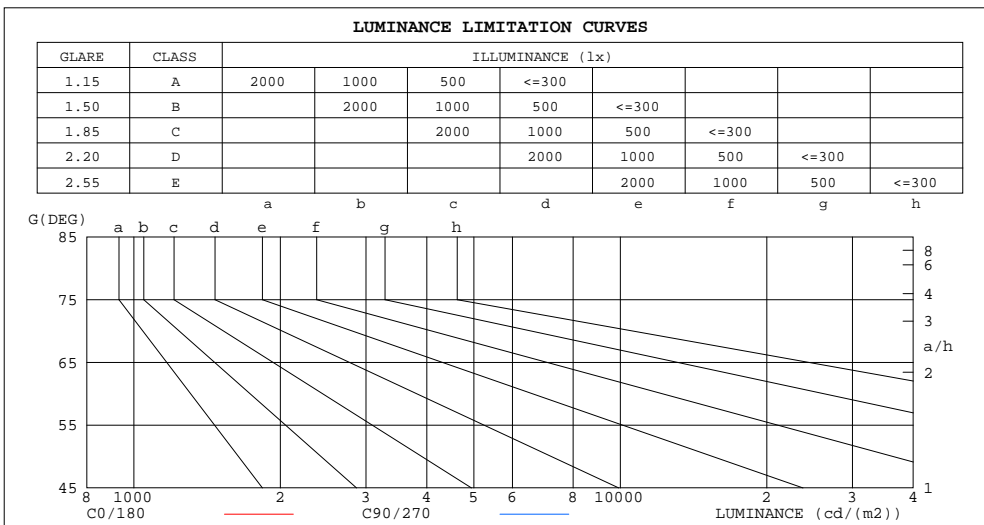
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	1512	1253	1234	1494	2197	2836	2671	2058	0- 10	318.9	318.9	46.9,46.9
20	283.4	207.8	188.8	232.5	387.5	548.6	551.2	412.9	10- 20	242.5	561.3	82.6,82.6
30	33.32	22.95	21.96	28.09	58.91	98.79	97.69	64.54	20- 30	69.78	631.1	92.9,92.9
40	12.43	11.35	11.45	11.46	12.25	15.57	16.69	13.70	30- 40	15.59	646.7	95.2,95.2
50	11.58	9.825	9.129	8.578	10.44	14.75	16.77	15.17	40- 50	9.522	656.2	96.6,96.6
60	8.734	8.057	7.906	8.031	8.534	9.549	10.23	10.09	50- 60	8.906	665.1	97.9,97.9
70	5.116	4.604	4.830	5.444	6.507	7.251	7.189	6.393	60- 70	7.575	672.7	99,99
80	1.606	1.341	1.474	1.939	2.586	2.971	2.799	2.280	70- 80	4.164	676.9	99.6,99.6
90	0.0611	0.0693	0.0744	0.0709	0.1856	0.2972	0.2545	0.0840	80- 90	0.9873	677.8	99.8,99.8
100	0.0826	0.0937	0.1012	0.0932	0.0858	0.0749	0.0708	0.0688	90-100	0.0854	677.9	99.8,99.8
110	0.1177	0.1420	0.1438	0.1348	0.1191	0.1086	0.0993	0.1025	100-110	0.1067	678.0	99.8,99.8
120	0.1903	0.2199	0.2339	0.2027	0.1829	0.1580	0.1435	0.1634	110-120	0.1484	678.2	99.8,99.8
130	0.4054	0.5746	0.4389	0.3294	0.4892	0.2594	0.2294	1.522	120-130	0.3690	678.6	99.9,99.9
140	0.3240	0.3240	0.3282	0.3226	0.3111	0.2923	0.2578	0.2859	130-140	0.3543	678.9	99.9,99.9
150	0.2702	0.2739	0.2948	0.3064	0.2838	0.2724	0.2543	0.2466	140-150	0.1932	679.1	100,100
160	0.2699	0.3173	0.3316	0.3081	0.2759	0.2550	0.2427	0.2351	150-160	0.1233	679.2	100,100
170	0.3726	0.4220	0.4191	0.4018	0.3839	0.3580	0.3509	0.3623	160-170	0.0945	679.3	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0295	679.3	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:0.7285A P:8.020W PF:0.9182 Freq:50.00Hz Lamp Flux:679.345x1 lm		
NAME: MR16-8-940-15D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6	5
80	9	8
75	12	12
70	15	14
65	17	16
60	17	16
55	17	15
50	18	14
45	21	16

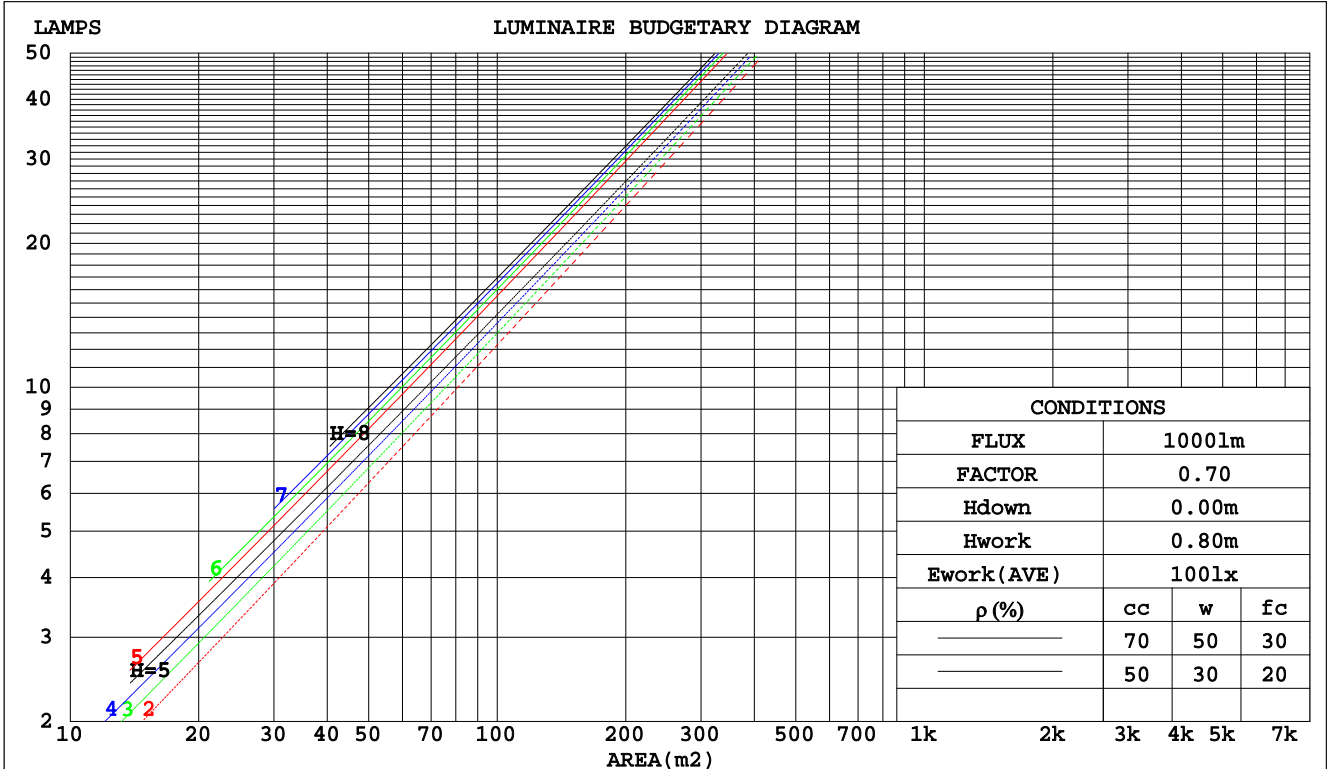
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 Humidity: 29.6%
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 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:11.99V I:0.7285A P:8.020W PF:0.9182 Freq:50.00Hz Lamp Flux:679.345x1 lm		
NAME: MR16-8-940-15D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																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	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.00	.97	1.02	.99	.96	.99	.97	.94	.97	.95	.93	.95	.93	.92	.90
4.0	.99	.96	.93	.98	.95	.92	.96	.93	.91	.94	.92	.90	.93	.91	.89	.88
5.0	.96	.92	.89	.95	.92	.89	.94	.90	.88	.92	.89	.87	.91	.88	.87	.85
6.0	.93	.89	.86	.93	.89	.86	.91	.88	.86	.90	.87	.85	.89	.86	.84	.83
7.0	.91	.87	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.87	.84	.82	.82
8.0	.88	.84	.82	.88	.84	.82	.87	.84	.81	.86	.83	.81	.85	.83	.81	.80
9.0	.86	.82	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.84	.81	.79	.78
10.0	.84	.81	.78	.84	.80	.78	.83	.80	.78	.83	.80	.78	.82	.79	.77	.77



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:0.7285A P:8.020W PF:0.9182 Freq:50.00Hz Lamp Flux:679.345x1 lm		
NAME: MR16-8-940-15D-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	.138	.079	.025	.132	.075	.024	.119	.068	.022	.108	.062	.020	.097	.056	.018	
2.0	.127	.070	.021	.122	.067	.021	.111	.062	.019	.102	.057	.018	.093	.053	.017	
3.0	.117	.062	.019	.113	.060	.018	.104	.056	.017	.096	.053	.016	.089	.049	.015	
4.0	.109	.056	.017	.105	.055	.016	.098	.052	.015	.091	.049	.015	.085	.046	.014	
5.0	.101	.052	.015	.098	.050	.015	.092	.048	.014	.086	.045	.014	.081	.043	.013	
6.0	.095	.048	.014	.092	.047	.013	.087	.045	.013	.082	.043	.013	.077	.041	.012	
7.0	.090	.044	.013	.087	.043	.012	.083	.042	.012	.078	.040	.012	.074	.039	.011	
8.0	.085	.041	.012	.083	.041	.011	.079	.039	.011	.075	.038	.011	.071	.037	.011	
9.0	.080	.039	.011	.079	.038	.011	.075	.037	.011	.072	.036	.010	.069	.035	.010	
10.0	.077	.037	.010	.075	.036	.010	.072	.035	.010	.069	.034	.010	.066	.033	.010	

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	.170	.159	.150	.146	.137	.129	.100	.094	.089	.057	.054	.052	.018	.018	.017	
2.0	.152	.134	.120	.130	.116	.103	.089	.080	.072	.051	.047	.042	.017	.015	.014	
3.0	.137	.115	.098	.117	.099	.085	.081	.069	.059	.046	.040	.035	.015	.013	.011	
4.0	.124	.100	.081	.106	.086	.070	.073	.060	.050	.042	.035	.029	.014	.011	.010	
5.0	.113	.087	.068	.097	.075	.059	.067	.053	.042	.039	.031	.025	.012	.010	.008	
6.0	.104	.077	.058	.089	.067	.050	.062	.047	.036	.036	.028	.021	.012	.009	.007	
7.0	.096	.069	.050	.082	.060	.043	.057	.042	.031	.033	.025	.018	.011	.008	.006	
8.0	.089	.062	.043	.077	.054	.038	.053	.038	.027	.031	.022	.016	.010	.007	.005	
9.0	.083	.056	.038	.072	.049	.033	.050	.034	.024	.029	.020	.014	.009	.007	.005	
10.0	.078	.051	.034	.067	.045	.029	.047	.031	.021	.027	.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:0.7285A P:8.020W PF:0.9182 Freq:50.00Hz Lamp Flux:679.345x1 lm										
NAME: MR16-8-940-15D-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	-9.9	-9.3	-9.7	-9.1	-9.0	-10.4	-9.8	-10.2	-9.7	-9.5
3H	-8.3	-7.8	-8.1	-7.6	-7.4	-8.8	-8.2	-8.6	-8.0	-7.8
4H	-7.9	-7.3	-7.6	-7.1	-6.9	-8.3	-7.7	-8.0	-7.5	-7.3
6H	-7.6	-7.1	-7.3	-6.8	-6.6	-8.0	-7.5	-7.7	-7.2	-7.0
8H	-7.5	-7.0	-7.2	-6.8	-6.5	-8.0	-7.5	-7.7	-7.2	-7.0
12H	-7.5	-7.0	-7.2	-6.8	-6.5	-8.0	-7.5	-7.7	-7.2	-6.9
4H 2H	-9.2	-8.7	-9.0	-8.5	-8.3	-9.7	-9.1	-9.4	-8.9	-8.7
3H	-7.6	-7.1	-7.3	-6.8	-6.6	-7.9	-7.4	-7.6	-7.2	-6.9
4H	-7.0	-6.6	-6.7	-6.3	-6.0	-7.4	-6.9	-7.0	-6.6	-6.3
6H	-6.7	-6.3	-6.4	-6.0	-5.6	-7.0	-6.6	-6.7	-6.3	-6.0
8H	-6.7	-6.3	-6.3	-5.9	-5.6	-7.0	-6.6	-6.6	-6.3	-5.9
12H	-6.7	-6.3	-6.3	-5.9	-5.5	-7.0	-6.7	-6.6	-6.3	-5.9
8H 4H	-6.9	-6.5	-6.5	-6.2	-5.8	-7.2	-6.8	-6.8	-6.5	-6.1
6H	-6.5	-6.2	-6.1	-5.8	-5.4	-6.8	-6.5	-6.4	-6.1	-5.7
8H	-6.5	-6.2	-6.0	-5.8	-5.3	-6.8	-6.5	-6.3	-6.1	-5.6
12H	-6.4	-6.2	-6.0	-5.7	-5.3	-6.8	-6.5	-6.3	-6.1	-5.6
12H 4H	-6.9	-6.6	-6.5	-6.2	-5.8	-7.2	-6.9	-6.8	-6.5	-6.1
6H	-6.6	-6.3	-6.1	-5.9	-5.4	-6.8	-6.6	-6.4	-6.1	-5.7
8H	-6.5	-6.2	-6.0	-5.8	-5.3	-6.8	-6.5	-6.3	-6.1	-5.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.3 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.4 / - 0.6					+ 0.2 / - 0.5				

CIE Pub.117, 679.3 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:0.7285A P:8.020W PF:0.9182 Freq:50.00Hz Lamp Flux:679.345x1 lm		
NAME: MR16-8-940-15D-DIM	TYPE:	WEIGHT:
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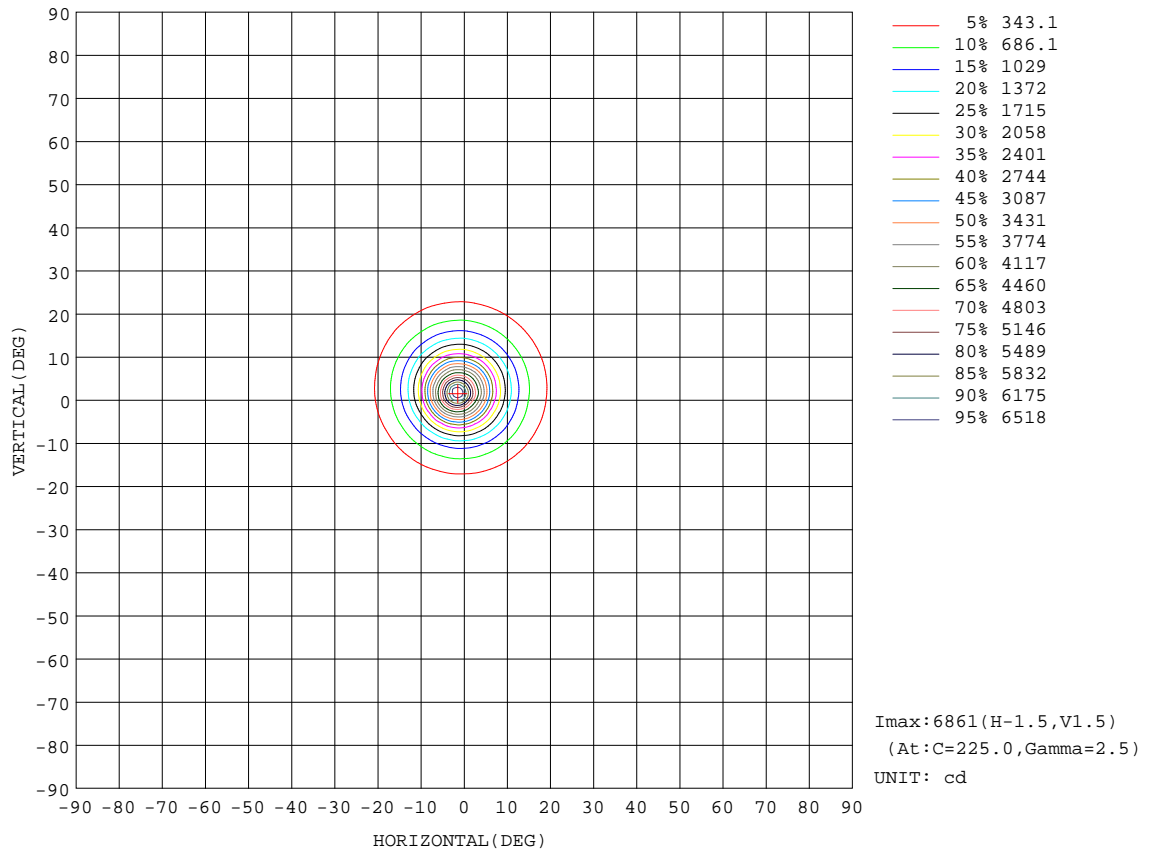
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	83	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	98	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	101	107	103	101	104	101	99	94
2.50	110	107	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	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
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ISOCANDELA DIAGRAM

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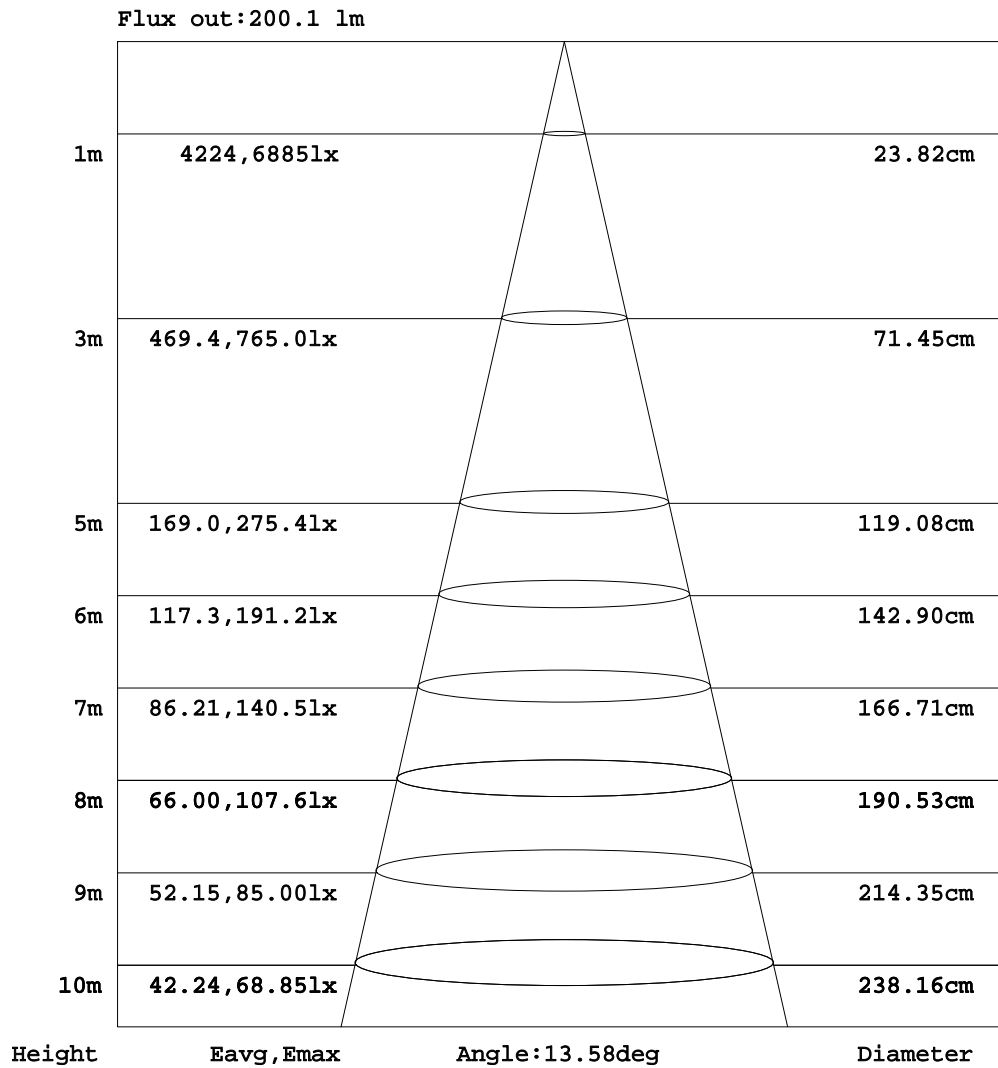


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 Test Date: 2017-04-13

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:

AAI Figure

Test:U:11.99V I:0.7285A P:8.020W PF:0.9182 Freq:50.00Hz Lamp Flux:679.345x1 lm		
NAME: MR16-8-940-15D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:



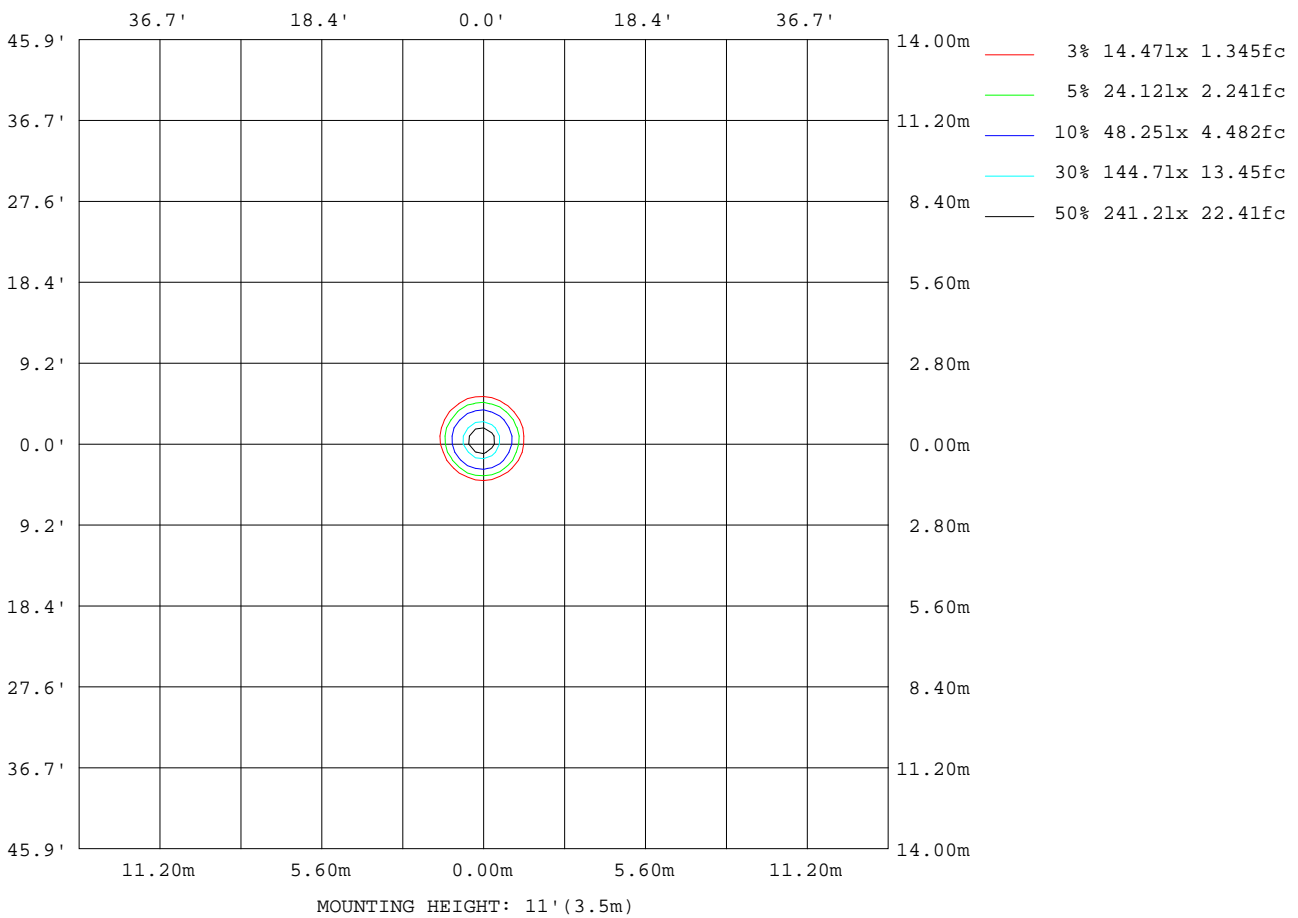
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.7285A P:8.020W PF:0.9182 Freq:50.00Hz Lamp Flux:679.345x1 lm		
NAME: MR16-8-940-15D-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:0.7285A P:8.020W PF:0.9182 Freq:50.00Hz Lamp Flux:679.345x1 lm		
NAME: MR16-8-940-15D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

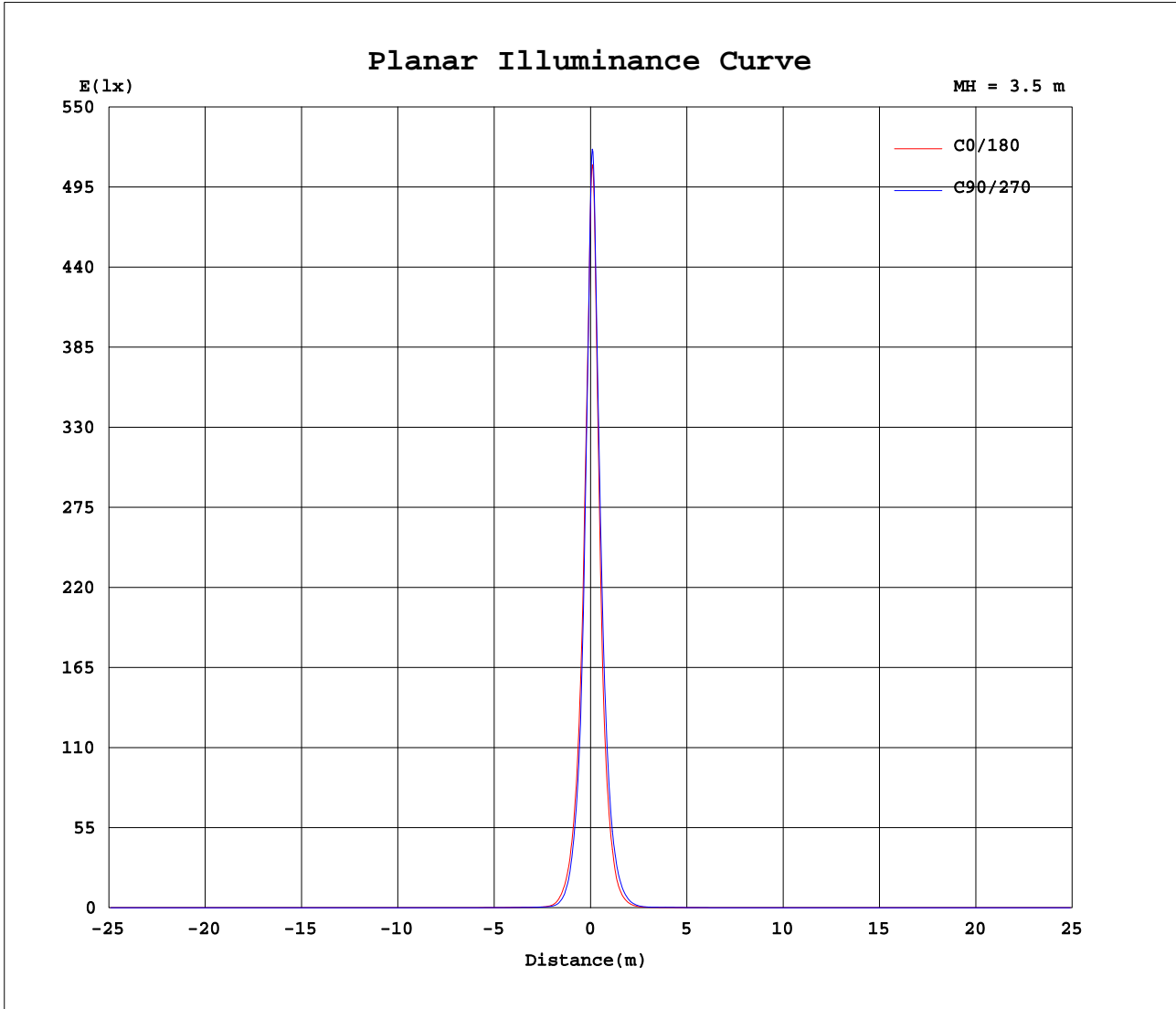
AvgL	cd/m2
L_0~180(65)av	18
L_0~180(75)av	15
L_0~180(85)av	9
L_90~270(65)av	19
L_90~270(75)av	15
L_90~270(85)av	9
L_45(65)av	18
L_45(75)av	15
L_45(85)av	9

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:0.7285A P:8.020W PF:0.9182 Freq:50.00Hz Lamp Flux:679.345x1 lm		
NAME: MR16-8-940-15D-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	5910	5919	5919	5925	5943	5956	5973	5985	5910	5919	5919	5925	5943	5956	5973	5985			
5	3392	3096	2939	2937	3071	3332	3743	4306	4907	5417	5728	5564	5102	4618	4165	3782			
10	1512	1351	1253	1214	1234	1320	1494	1819	2197	2591	2836	2880	2671	2396	2058	1759			
15	673	592	539	513	521	565	648	769	951	1127	1268	1302	1233	1092	936	796			
20	283	241	208	193	189	202	233	291	388	478	549	568	551	484	413	348			
25	108	85.4	69.4	60.8	59.9	66.3	81.0	108	151	197	234	250	240	210	174	140			
30	33.3	26.4	23.0	21.8	22.0	23.8	28.1	38.0	58.9	79.7	98.8	104	97.7	81.4	64.5	45.9			
35	14.9	14.6	13.7	13.7	13.5	13.3	14.3	16.4	22.1	30.3	38.0	39.4	35.9	30.1	23.6	17.9			
40	12.4	12.7	11.4	11.4	11.4	10.7	11.5	11.4	12.3	14.2	15.6	16.7	16.7	15.3	13.7	12.5			
45	14.8	14.5	11.8	11.7	11.3	9.97	9.33	9.85	10.5	11.5	11.9	12.7	14.1	13.0	13.4	14.3			
50	11.6	10.8	9.82	9.64	9.13	8.70	8.58	8.91	10.4	12.9	14.7	16.0	16.8	16.1	15.2	13.3			
55	9.63	9.43	8.92	8.95	8.53	8.11	8.09	8.02	8.61	9.86	10.4	11.2	11.5	11.2	11.1	10.2			
60	8.73	8.40	8.06	8.07	7.91	7.81	8.03	8.09	8.53	9.52	9.55	10.0	10.2	10.1	10.1	9.33			
65	7.13	6.76	6.54	6.59	6.62	6.77	7.14	7.51	8.04	8.82	8.91	9.18	9.16	8.87	8.55	7.81			
70	5.12	4.78	4.60	4.70	4.83	5.04	5.44	5.91	6.51	7.11	7.25	7.40	7.19	6.79	6.39	5.74			
75	3.21	2.96	2.82	2.91	3.03	3.25	3.62	4.00	4.49	4.92	5.03	5.09	4.87	4.54	4.18	3.69			
80	1.61	1.43	1.34	1.39	1.47	1.66	1.94	2.24	2.59	2.89	2.97	2.98	2.80	2.55	2.28	1.93			
85	0.48	0.39	0.34	0.35	0.40	0.50	0.66	0.85	1.08	1.26	1.33	1.32	1.21	1.04	0.86	0.66			
90	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.19	0.26	0.30	0.30	0.25	0.18	0.08	0.06			
95	0.07	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06			
100	0.08	0.09	0.09	0.10	0.10	0.10	0.09	0.09	0.09	0.08	0.07	0.07	0.07	0.07	0.07	0.08			
105	0.10	0.11	0.12	0.12	0.12	0.12	0.11	0.11	0.10	0.09	0.09	0.09	0.09	0.08	0.08	0.09			
110	0.12	0.13	0.14	0.15	0.14	0.14	0.13	0.13	0.12	0.11	0.11	0.10	0.10	0.10	0.10	0.11			
115	0.15	0.16	0.18	0.19	0.18	0.17	0.16	0.16	0.14	0.13	0.13	0.12	0.12	0.12	0.12	0.13			
120	0.19	0.20	0.22	0.23	0.23	0.21	0.20	0.20	0.18	0.17	0.16	0.15	0.14	0.15	0.16	0.17			
125	0.23	0.24	0.29	0.30	0.28	0.26	0.24	0.23	0.23	0.20	0.20	0.19	0.19	0.21	0.22	0.22			
130	0.41	0.35	0.57	0.51	0.44	1.24	0.33	2.64	0.49	0.28	0.26	0.22	0.23	0.49	1.52	1.42			
135	0.31	0.35	0.35	0.33	0.32	0.33	0.31	0.42	0.37	0.38	0.49	0.28	0.29	0.35	0.37	0.33			
140	0.32	0.35	0.32	0.31	0.33	0.33	0.32	0.34	0.31	0.30	0.29	0.26	0.26	0.28	0.29	0.28			
145	0.31	0.31	0.31	0.31	0.33	0.33	0.33	0.32	0.31	0.30	0.28	0.27	0.32	0.28	0.30	0.32			
150	0.27	0.28	0.27	0.28	0.29	0.31	0.31	0.30	0.28	0.27	0.27	0.25	0.25	0.26	0.25	0.25			
155	0.25	0.27	0.29	0.29	0.29	0.29	0.30	0.29	0.26	0.26	0.24	0.24	0.24	0.23	0.22	0.23			
160	0.27	0.30	0.32	0.33	0.33	0.32	0.31	0.29	0.28	0.27	0.25	0.24	0.24	0.24	0.24	0.25			
165	0.32	0.37	0.41	0.42	0.41	0.39	0.36	0.34	0.33	0.33	0.31	0.29	0.29	0.29	0.30	0.32			
170	0.37	0.38	0.42	0.44	0.42	0.42	0.40	0.38	0.38	0.38	0.36	0.34	0.35	0.36	0.36	0.38			
175	0.24	0.24	0.24	0.26	0.28	0.29	0.30	0.31	0.30	0.30	0.30	0.31	0.32	0.33	0.32	0.32			
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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 Temperature: 25.2DEG
 Operators:
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