

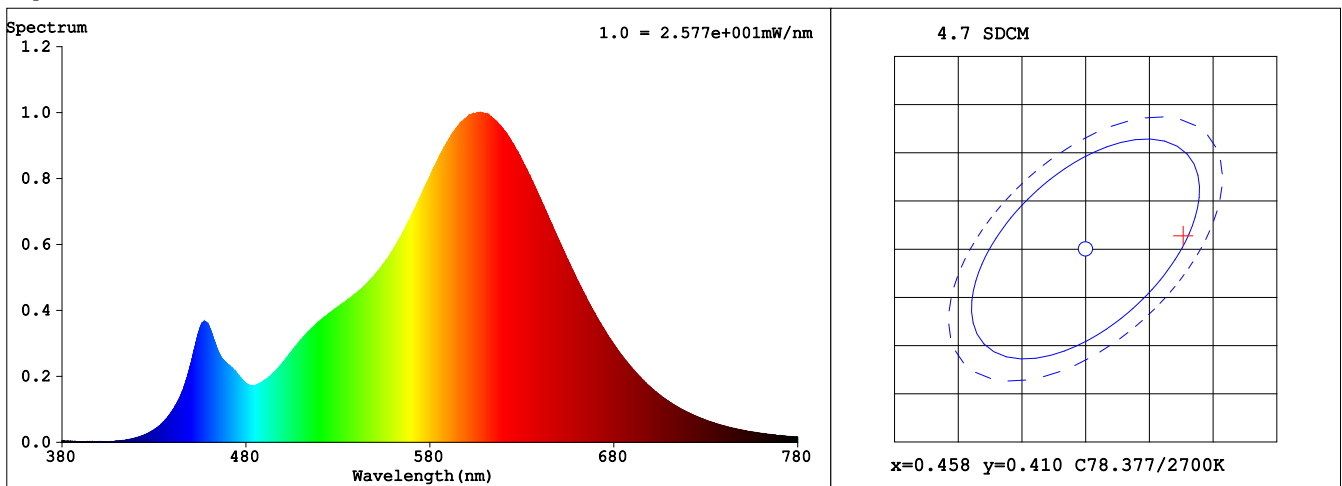
# Spectrum Test Report

Sample	:	Date	: 2019-08-24 10:20:55
Specification	:	Sam. Status	:
Sample No.	: ÓÜÌ €ËGË Ğ ÆÖQ	Standard	: LM-79-08
Manufacturer	: RAB Lighting Inc	Instrument	: HaasSuite(EVERFINE)
Remark	:	Test by	: huaWenJun (2.0)

## Test Condition

Temperature	: 25.7Deg	RH	: 30.1%
WL Range	: 380nm-780nm	IP	: 54006 (82%)
Test Mode	: Fast Test	T	: 149 ms
Sensitivity	: High		

## Spectrum



## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4653$   $y = 0.4112$  /  $u' = 0.2658$   $v' = 0.5284$  ( $duv = -2.02e-04$ )

CCT= 2630K Prcp WL:  $L_d = 584.6\text{nm}$  Purity=63.1%

Peak WL:  $L_p = 607\text{nm}$  FWHM: =110.4nm Ratio:R=25.8% G=72.0% B=2.3%

Render Index:  $R_a = 81.9$  TM30:Rf=82 Rg=94

R1 =81 R2 =93 R3 =93 R4 =79 R5 =81 R6 =93 R7 =80

R8 =55 R9 =6 R10=84 R11=78 R12=76 R13=84 R14=97 R15=73

LEVEL:OUT WHITE:ANSI\_2700K

## Photometric & Radiometric Parameters

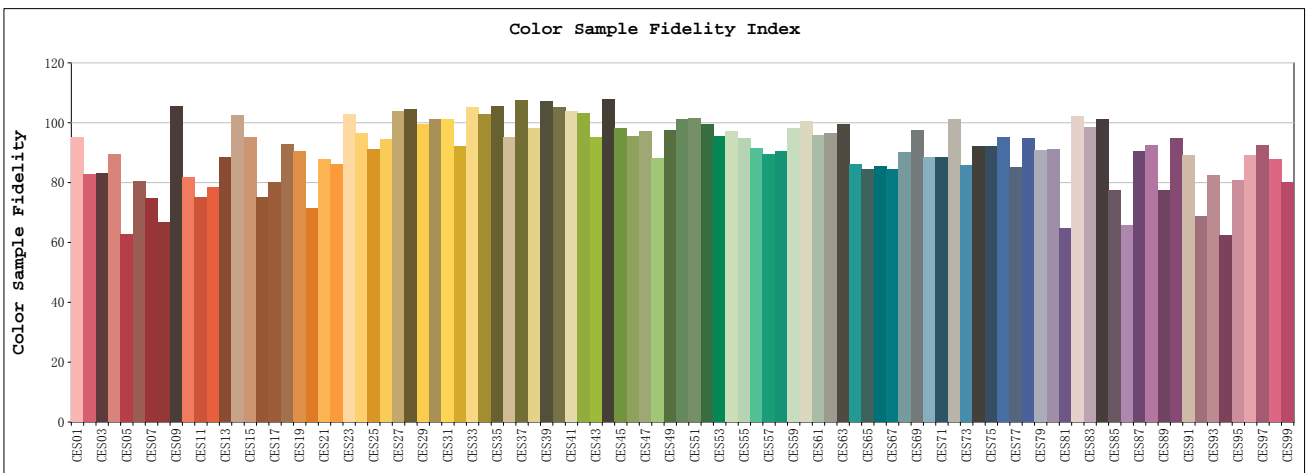
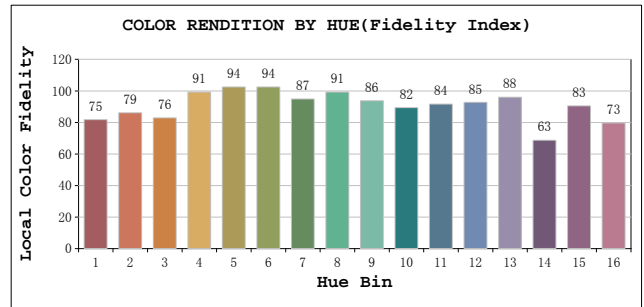
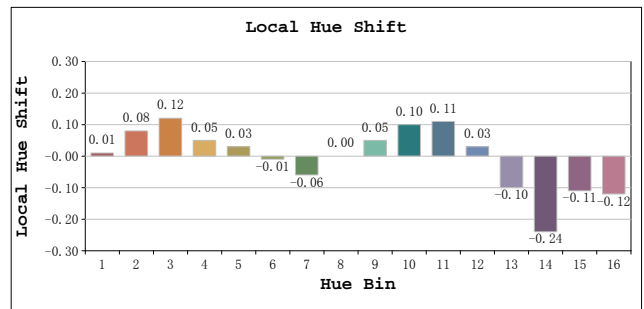
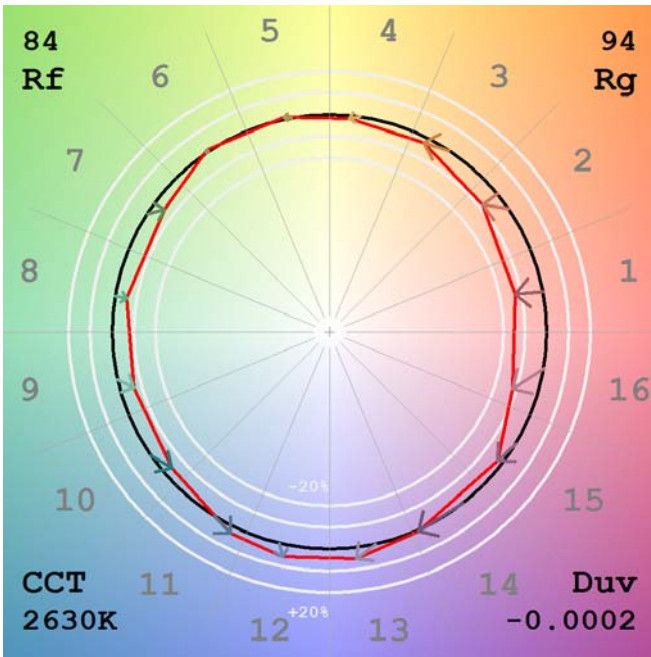
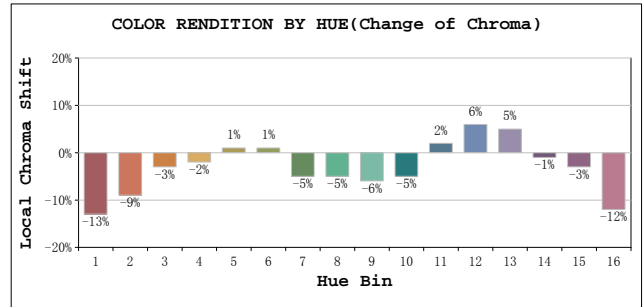
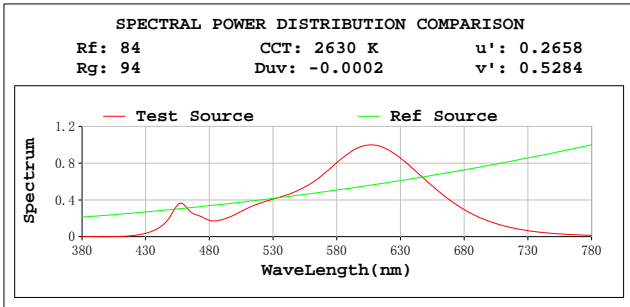
Flux = 1139.8 lm Eff. : 101.32 lm/W Fe = 3.5369 W

Flux of emitted photons( $\mu\text{mol/s}$ ):17.435 Fluo. and blue light ratio:11.18 Fluorescent eff.:239.8

## Electrical parameters

V = 119.96 V I = 0.1129 A P = 11.25 W PF = 0.8307

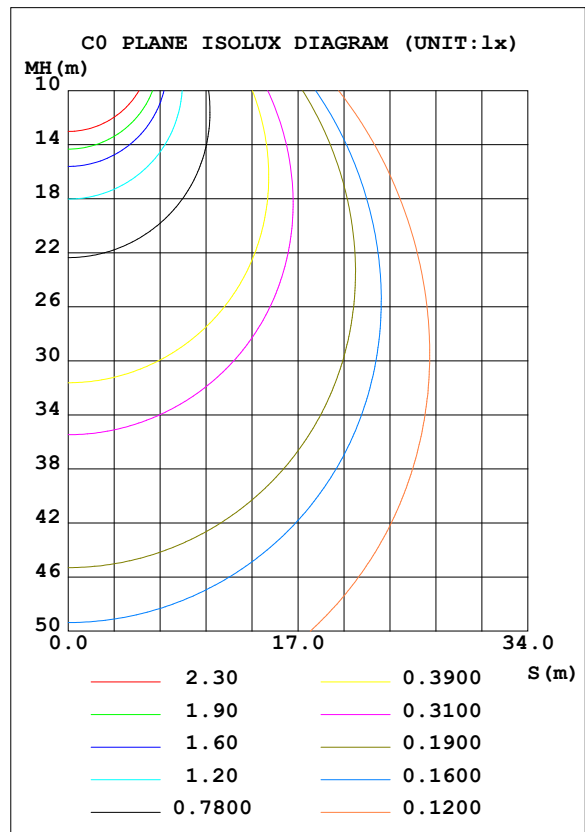
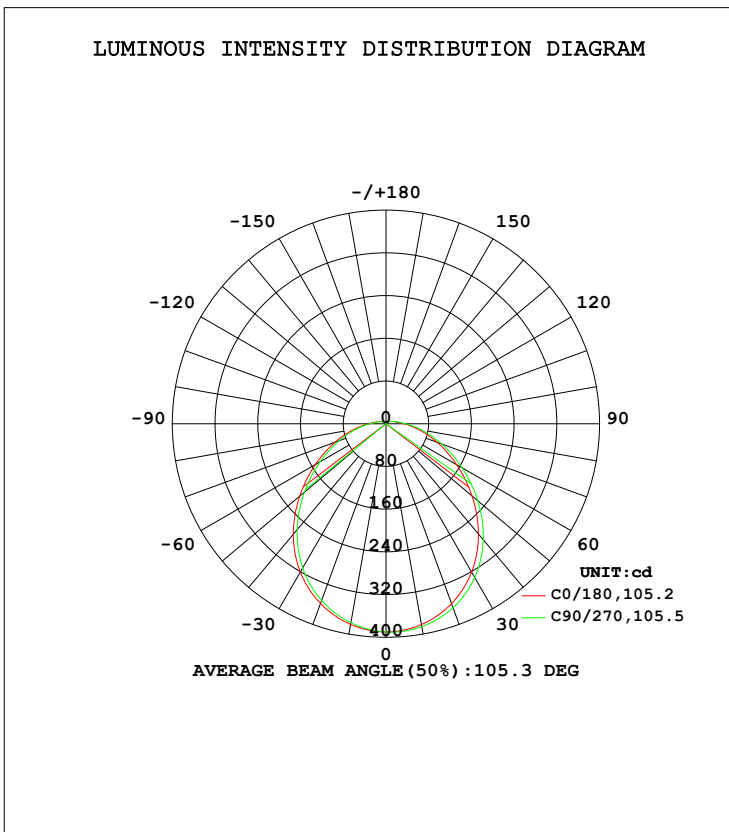
# TM30



LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1159A P:11.36W PF:0.8169 Freq:0Hz Lamp Flux:1161.43x1 lm		
NAME: BR40-12-827-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.24 lm/W			
MODEL	/	I <sub>max</sub> (cd)	390.4	S/MH (C0/180)	1.23
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1161.4	η UP, DN (C0-180)	3.0, 48.6
NOMINAL FLUX (lm)	1161.43	CIE CLASS	DIRECT	η UP, DN (C180-360)	2.7, 45.6
LAMPS INSIDE	1	η up (%)	5.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	94.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: YY  
 Test Date: 2019-08-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 28.2%  
 Test Distance: 1.191m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

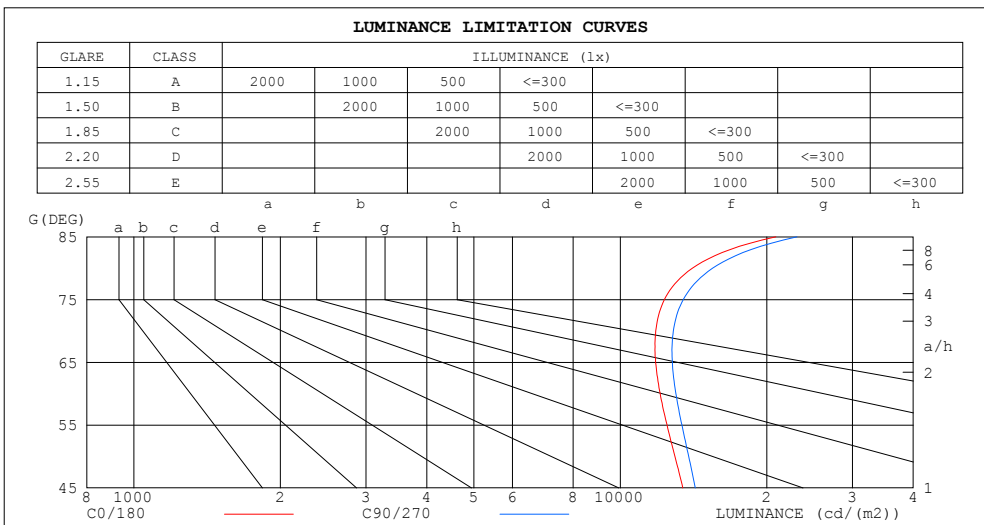
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	387.9	389.2	389.9	389.1	387.7	386.3	386.1	386.6	0- 5	9.297	9.297	0.80,0.80
10	381.9	384.3	386.0	384.5	381.5	378.8	378.4	379.6	5- 10	27.53	36.83	3.17,3.17
15	372.1	375.7	378.2	376.2	371.8	367.8	367.3	368.9	10- 15	44.73	81.56	7.02,7.02
20	358.6	363.4	366.7	364.0	358.3	353.3	352.5	354.6	15- 20	60.25	141.8	12.2,12.2
25	341.4	347.5	351.6	348.1	341.4	335.2	334.0	336.5	20- 25	73.51	215.3	18.5,18.5
30	320.8	328.0	332.5	328.8	320.9	313.9	311.9	314.8	25- 30	83.96	299.3	25.8,25.8
35	296.4	304.7	309.6	305.7	296.9	289.0	286.6	289.7	30- 35	91.11	390.4	33.6,33.6
40	269.3	278.4	283.5	279.2	269.9	261.5	258.7	261.9	35- 40	94.68	485.1	41.8,41.8
45	240.1	249.6	254.7	250.5	240.9	232.1	229.2	232.5	40- 45	94.67	579.7	49.9,49.9
50	210.2	219.5	224.5	220.2	211.0	202.2	199.3	202.6	45- 50	91.33	671.1	57.8,57.8
55	180.7	189.4	193.9	190.0	181.2	173.0	170.2	173.4	50- 55	85.26	756.3	65.1,65.1
60	152.5	160.5	164.4	160.6	152.7	145.1	142.5	145.5	55- 60	77.17	833.5	71.8,71.8
65	126.2	133.3	136.6	133.1	126.1	119.3	117.0	119.9	60- 65	67.78	901.3	77.6,77.6
70	102.1	108.3	111.0	107.9	101.6	95.74	93.88	96.52	65- 70	57.74	959.0	82.6,82.6
75	80.54	85.91	88.06	85.32	79.74	74.70	73.22	75.68	70- 75	47.58	1007	86.7,86.7
80	61.70	66.18	67.88	65.47	60.77	56.65	55.63	57.81	75- 80	37.82	1044	89.9,89.9
85	45.94	49.47	50.78	48.81	44.95	41.76	40.93	42.71	80- 85	28.96	1073	92.4,92.4
90	33.66	36.26	37.15	35.66	32.88	30.60	30.04	31.33	85- 90	21.48	1095	94.3,94.3
95	25.12	26.83	27.32	26.29	24.50	23.01	22.65	23.48	90- 95	15.82	1111	95.6,95.6
100	19.52	20.62	20.86	20.18	19.14	18.24	17.99	18.53	95-100	11.92	1123	96.7,96.7
105	15.93	16.68	16.77	16.33	15.60	14.94	14.71	15.16	100-105	9.358	1132	97.5,97.5
110	13.02	13.63	13.68	13.31	12.74	12.20	12.03	12.39	105-110	7.467	1139	98.1,98.1
115	10.58	11.07	11.10	10.78	10.32	9.896	9.758	10.05	110-115	5.891	1145	98.6,98.6
120	8.531	8.917	8.933	8.663	8.296	7.958	7.853	8.088	115-120	4.573	1150	99.99
125	6.803	7.111	7.120	6.883	6.595	6.328	6.252	6.445	120-125	3.483	1153	99.3,99.3
130	5.356	5.602	5.606	5.398	5.178	4.956	4.905	5.063	125-130	2.594	1156	99.5,99.5
135	4.154	4.351	4.343	4.164	3.977	3.823	3.780	3.913	130-135	1.879	1158	99.7,99.7
140	3.173	3.329	3.302	3.159	3.010	2.892	2.860	2.977	135-140	1.321	1159	99.8,99.8
145	2.373	2.493	2.450	2.332	2.222	2.133	2.117	2.212	140-145	0.8955	1160	99.9,99.9
150	1.740	1.826	1.782	1.682	1.595	1.535	1.531	1.610	145-150	0.5801	1161	99.9,99.9
155	1.261	1.321	1.271	1.193	1.126	1.087	1.093	1.164	150-155	0.3590	1161	100,100
160	0.9279	0.9652	0.9096	0.8498	0.8016	0.7745	0.7910	0.8569	155-160	0.2134	1161	100,100
165	0.6986	0.7265	0.6641	0.6264	0.5902	0.5698	0.5832	0.6463	160-165	0.1231	1161	100,100
170	0.5174	0.5402	0.4709	0.4296	0.4163	0.3982	0.3903	0.4723	165-170	0.0656	1161	100,100
175	0.3375	0.2443	0.2730	0.1728	0.2427	0.1923	0.1397	0.1180	170-175	0.0255	1161	100,100
180	0.0007	0.0005	0.0003	0.0007	0.0003	0.0005	0.0005	0.0005	175-180	0.0027	1161	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YY  
 Test Date:2019-08-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:28.2%  
 Test Distance:1.191m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1159A P:11.36W PF:0.8169 Freq:0Hz Lamp Flux:1161.43x1 lm		
NAME: BR40-12-827-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	20865	23064
80	14067	15475
75	12320	13469
70	11821	12850
65	11819	12797
60	12076	13013
55	12474	13385
50	12948	13826
45	13443	14258

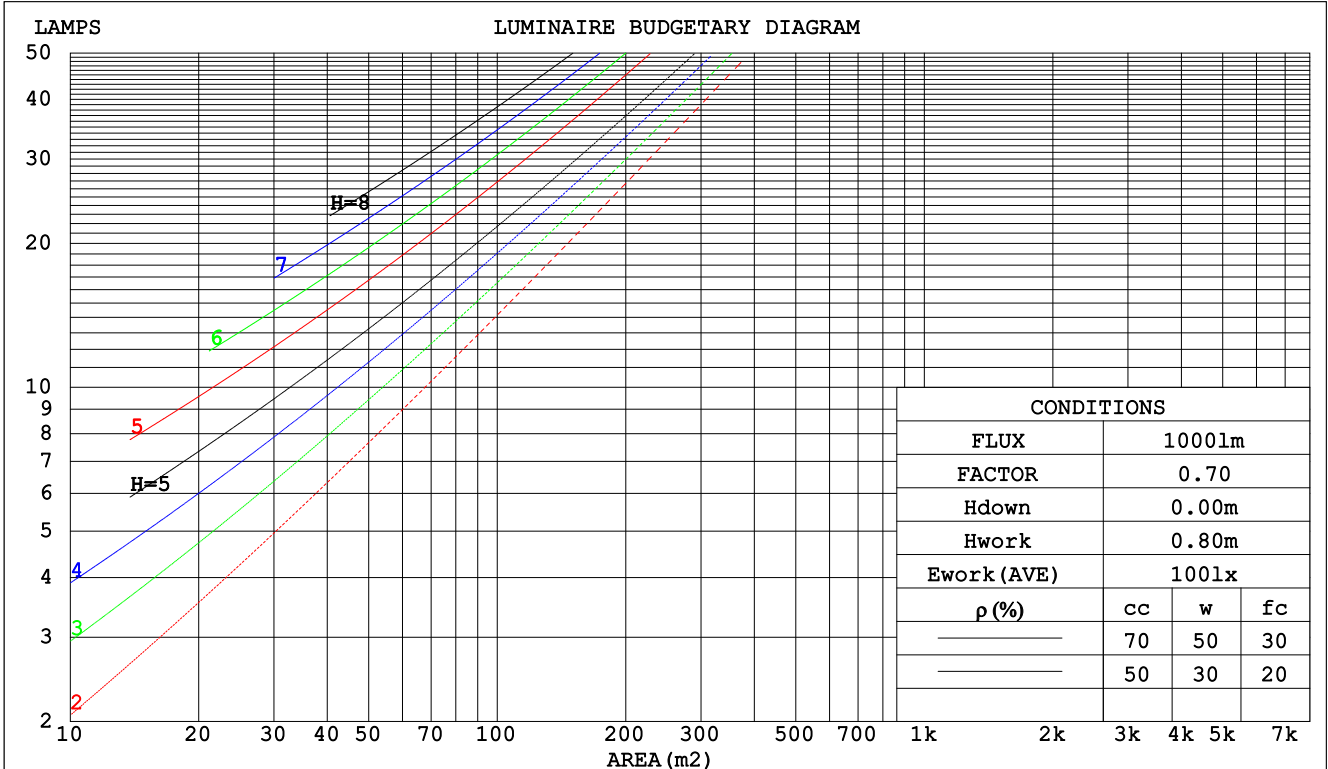
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1159A P:11.36W PF:0.8169 Freq:0Hz Lamp Flux:1161.43x1 lm		
NAME: BR40-12-827-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	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.97	.97	.97	.94
1.0	1.01	.97	.92	.98	.94	.90	.93	.90	.86	.88	.85	.83	.84	.81	.79	.77
2.0	.88	.81	.75	.86	.79	.74	.81	.76	.71	.77	.72	.69	.73	.69	.66	.64
3.0	.77	.69	.62	.75	.68	.61	.71	.65	.60	.68	.62	.58	.65	.60	.56	.54
4.0	.69	.60	.53	.67	.59	.52	.64	.56	.51	.61	.54	.49	.58	.53	.48	.46
5.0	.61	.52	.46	.60	.51	.45	.57	.50	.44	.54	.48	.43	.52	.46	.42	.40
6.0	.55	.46	.40	.54	.45	.39	.52	.44	.39	.49	.43	.38	.47	.41	.37	.35
7.0	.50	.41	.35	.49	.41	.35	.47	.40	.34	.45	.38	.34	.43	.37	.33	.31
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.31	.41	.35	.30	.40	.34	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.38	.32	.27	.37	.31	.27	.25
10.0	.39	.31	.26	.38	.30	.25	.37	.30	.25	.35	.29	.25	.34	.28	.24	.23



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: YY  
 Test Date: 2019-08-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 28.2%  
 Test Distance: 1.191m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1159A P:11.36W PF:0.8169 Freq:0Hz Lamp Flux:1161.43x1 lm		
NAME: BR40-12-827-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	.334	.190	.060	.325	.185	.059	.308	.177	.056	.293	.169	.054	.279	.162	.052	
2.0	.302	.165	.051	.294	.162	.050	.279	.155	.048	.265	.149	.047	.253	.143	.045	
3.0	.274	.146	.044	.267	.143	.043	.254	.138	.042	.242	.133	.041	.231	.128	.039	
4.0	.251	.130	.038	.245	.128	.038	.233	.123	.037	.222	.119	.036	.212	.115	.035	
5.0	.231	.118	.034	.225	.116	.034	.214	.112	.033	.205	.108	.032	.195	.104	.031	
6.0	.213	.107	.031	.208	.105	.030	.199	.102	.030	.190	.099	.029	.181	.095	.028	
7.0	.198	.098	.028	.193	.096	.027	.185	.093	.027	.177	.091	.026	.169	.088	.026	
8.0	.185	.090	.025	.181	.089	.025	.173	.086	.025	.165	.084	.024	.158	.081	.024	
9.0	.173	.084	.023	.169	.082	.023	.162	.080	.023	.155	.078	.022	.149	.076	.022	
10.0	.162	.078	.022	.159	.077	.021	.153	.075	.021	.146	.073	.021	.141	.071	.020	

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	.234	.234	.234	.200	.200	.200	.137	.137	.137	.078	.078	.078	.025	.025	.025	
1.0	.226	.200	.177	.193	.172	.152	.132	.118	.105	.076	.068	.061	.024	.022	.020	
2.0	.218	.176	.141	.187	.152	.122	.128	.105	.085	.074	.061	.050	.024	.020	.016	
3.0	.210	.159	.118	.180	.137	.103	.124	.095	.072	.071	.056	.042	.023	.018	.014	
4.0	.202	.146	.103	.173	.126	.089	.119	.088	.063	.069	.051	.037	.022	.017	.012	
5.0	.194	.136	.092	.167	.117	.080	.115	.082	.057	.067	.048	.034	.021	.016	.011	
6.0	.187	.127	.084	.161	.110	.073	.111	.077	.052	.064	.045	.031	.021	.015	.010	
7.0	.180	.120	.078	.155	.104	.068	.107	.073	.048	.062	.043	.029	.020	.014	.010	
8.0	.174	.115	.074	.150	.099	.065	.104	.070	.046	.060	.041	.027	.019	.014	.009	
9.0	.168	.110	.071	.144	.095	.062	.100	.067	.044	.058	.040	.026	.019	.013	.009	
10.0	.162	.106	.068	.140	.092	.059	.097	.064	.042	.057	.038	.025	.018	.013	.008	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
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γ Range: 0 - 180DEG  
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 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:28.2%  
 Test Distance:1.191m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1159A P:11.36W PF:0.8169 Freq:0Hz Lamp Flux:1161.43x1 lm										
NAME: BR40-12-827-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	21.2	22.7	21.6	23.0	23.3	21.5	23.0	21.9	23.3	23.6
3H	22.8	24.1	23.2	24.5	24.8	23.2	24.5	23.5	24.8	25.2
4H	23.6	24.9	24.0	25.2	25.6	24.0	25.2	24.4	25.6	26.0
6H	24.3	25.5	24.8	25.9	26.3	24.8	26.0	25.2	26.4	26.8
8H	24.7	25.9	25.2	26.3	26.7	25.2	26.4	25.6	26.7	27.2
12H	25.2	26.3	25.6	26.7	27.1	25.7	26.8	26.1	27.2	27.6
4H 2H	21.9	23.1	22.3	23.5	23.9	22.1	23.4	22.5	23.7	24.1
3H	23.7	24.8	24.1	25.2	25.6	24.0	25.1	24.4	25.5	25.9
4H	24.6	25.6	25.1	26.1	26.5	24.9	26.0	25.4	26.4	26.8
6H	25.6	26.5	26.0	26.9	27.4	25.9	26.8	26.4	27.3	27.8
8H	26.0	26.9	26.5	27.4	27.9	26.4	27.3	26.9	27.8	28.3
12H	26.6	27.4	27.1	27.9	28.4	27.0	27.8	27.5	28.3	28.8
8H 4H	25.0	25.9	25.5	26.3	26.8	25.3	26.1	25.8	26.6	27.1
6H	26.2	26.9	26.7	27.4	28.0	26.5	27.2	27.1	27.7	28.3
8H	26.9	27.5	27.4	28.0	28.6	27.2	27.8	27.8	28.4	28.9
12H	27.6	28.1	28.2	28.7	29.3	28.0	28.5	28.6	29.1	29.7
12H 4H	25.1	25.9	25.6	26.4	26.9	25.3	26.1	25.9	26.6	27.1
6H	26.4	27.0	26.9	27.5	28.1	26.7	27.3	27.2	27.8	28.4
8H	27.1	27.7	27.7	28.2	28.8	27.4	28.0	28.0	28.5	29.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 1161 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.5)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:YY  
 Test Date:2019-08-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:28.2%  
 Test Distance:1.191m [K=1.0000]  
 Remarks:



## UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1159A P:11.36W PF:0.8169 Freq:0Hz Lamp Flux:1161.43x1 lm		
NAME: BR40-12-827-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

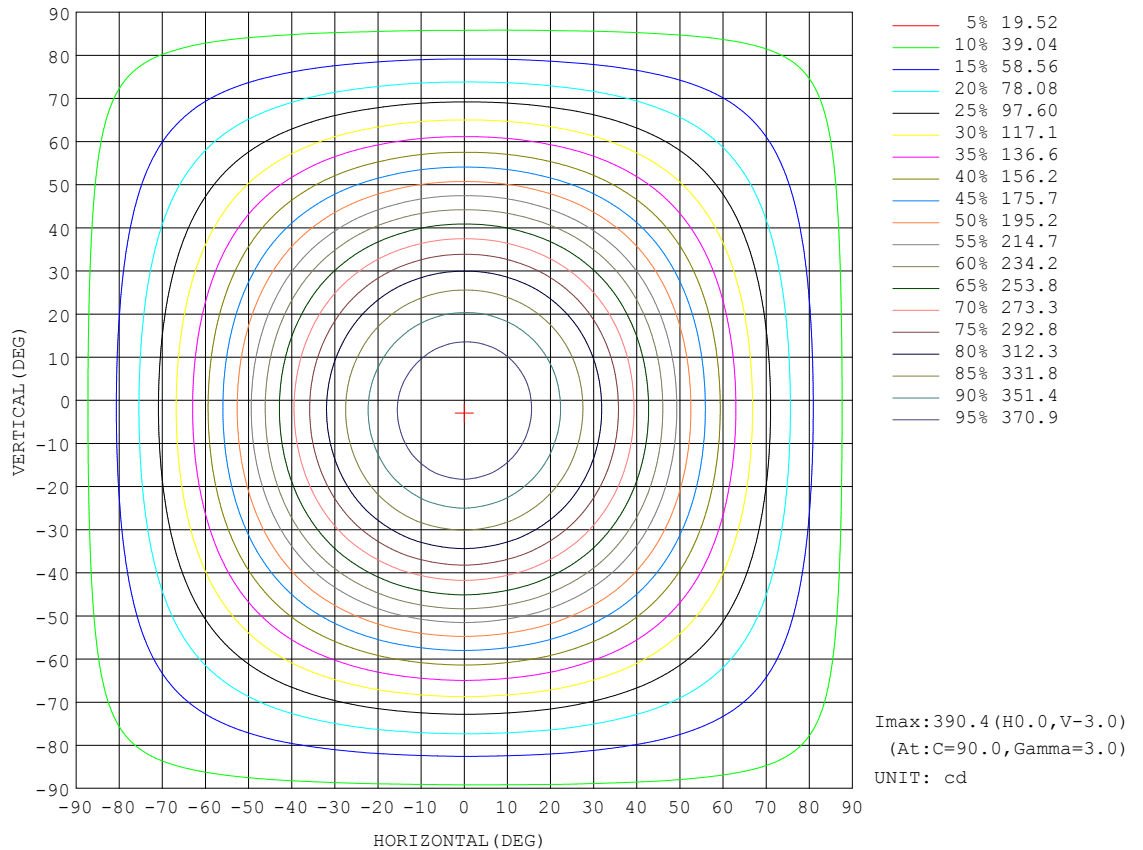
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	53	43	37	30
0.80	65	53	46	64	53	46	62	52	45	38
1.00	73	62	54	72	61	54	69	62	53	46
1.25	80	69	62	79	68	61	75	67	60	52
1.50	85	75	67	83	74	67	80	71	65	57
2.00	92	83	76	90	81	75	86	78	73	64
2.50	96	87	81	93	86	80	89	82	77	68
3.00	99	92	85	97	90	84	92	86	81	72
4.00	103	97	92	100	95	90	95	91	87	76
5.00	106	100	96	103	98	94	97	93	90	79
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: 25.3DEG  
 Operators: YY  
 Test Date: 2019-08-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 28.2%  
 Test Distance: 1.191m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1159A P:11.36W PF:0.8169 Freq:0Hz Lamp Flux:1161.43x1 lm		
NAME: BR40-12-827-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

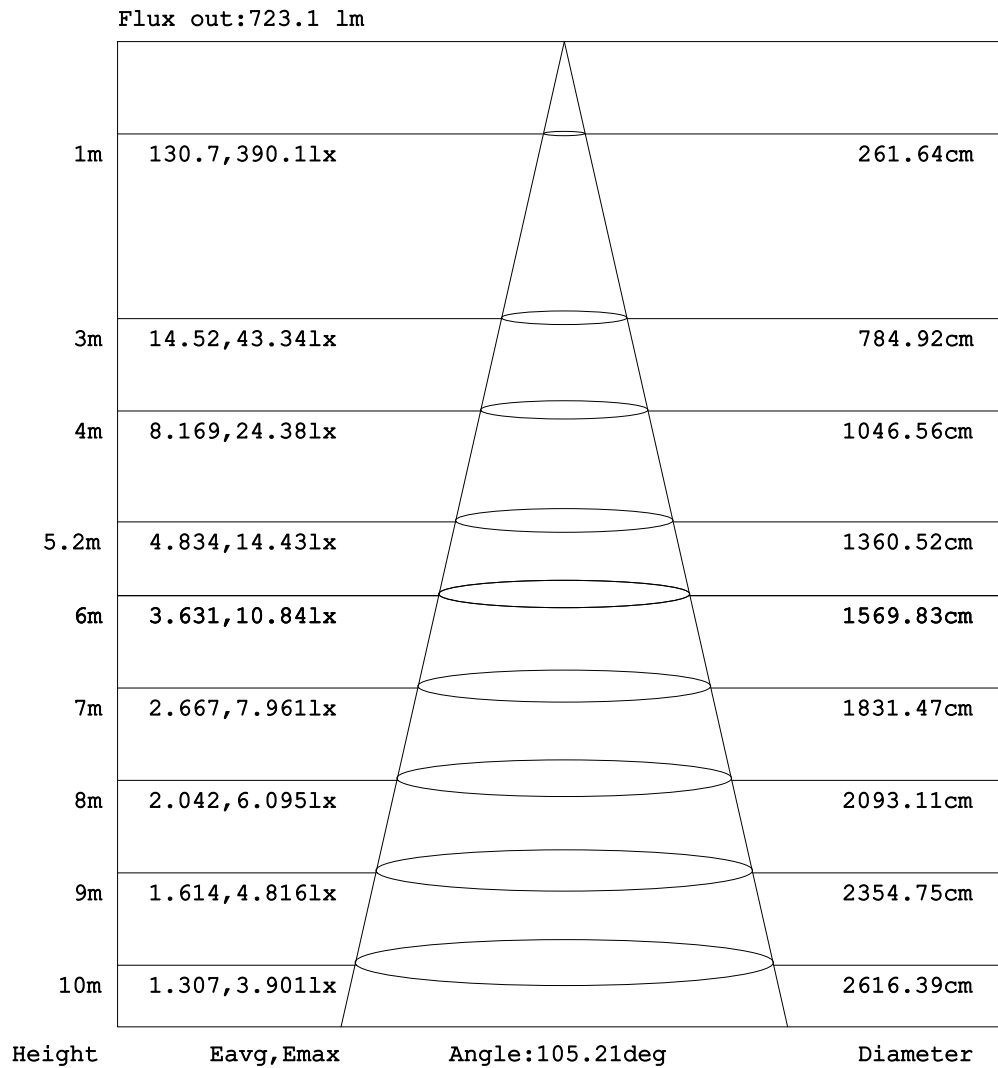


C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: YY  
 Test Date: 2019-08-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 28.2%  
 Test Distance: 1.191m [K=1.0000]  
 Remarks:

**AAI Figure**

Test:U:120.0V I:0.1159A P:11.36W PF:0.8169 Freq:0Hz Lamp Flux:1161.43x1 lm		
NAME: BR40-12-827-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /



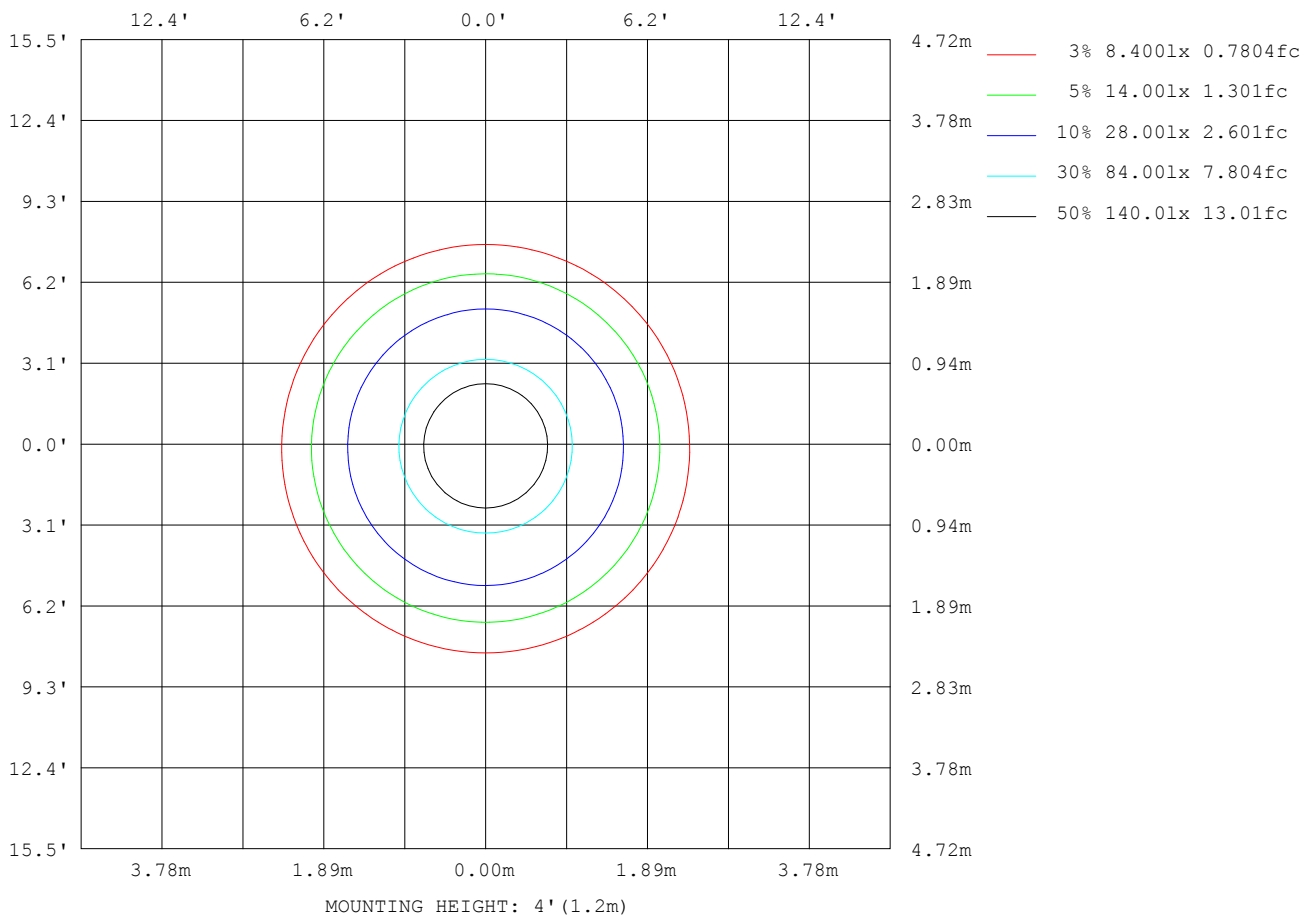
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: YY  
 Test Date: 2019-08-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 28.2%  
 Test Distance: 1.191m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1159A P:11.36W PF:0.8169 Freq:0Hz Lamp Flux:1161.43x1 lm		
NAME: BR40-12-827-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: 25.3DEG  
 Operators: YY  
 Test Date: 2019-08-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 28.2%  
 Test Distance: 1.191m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.0V I:0.1159A P:11.36W PF:0.8169 Freq:0Hz Lamp Flux:1161.43x1 lm		
NAME: BR40-12-827-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

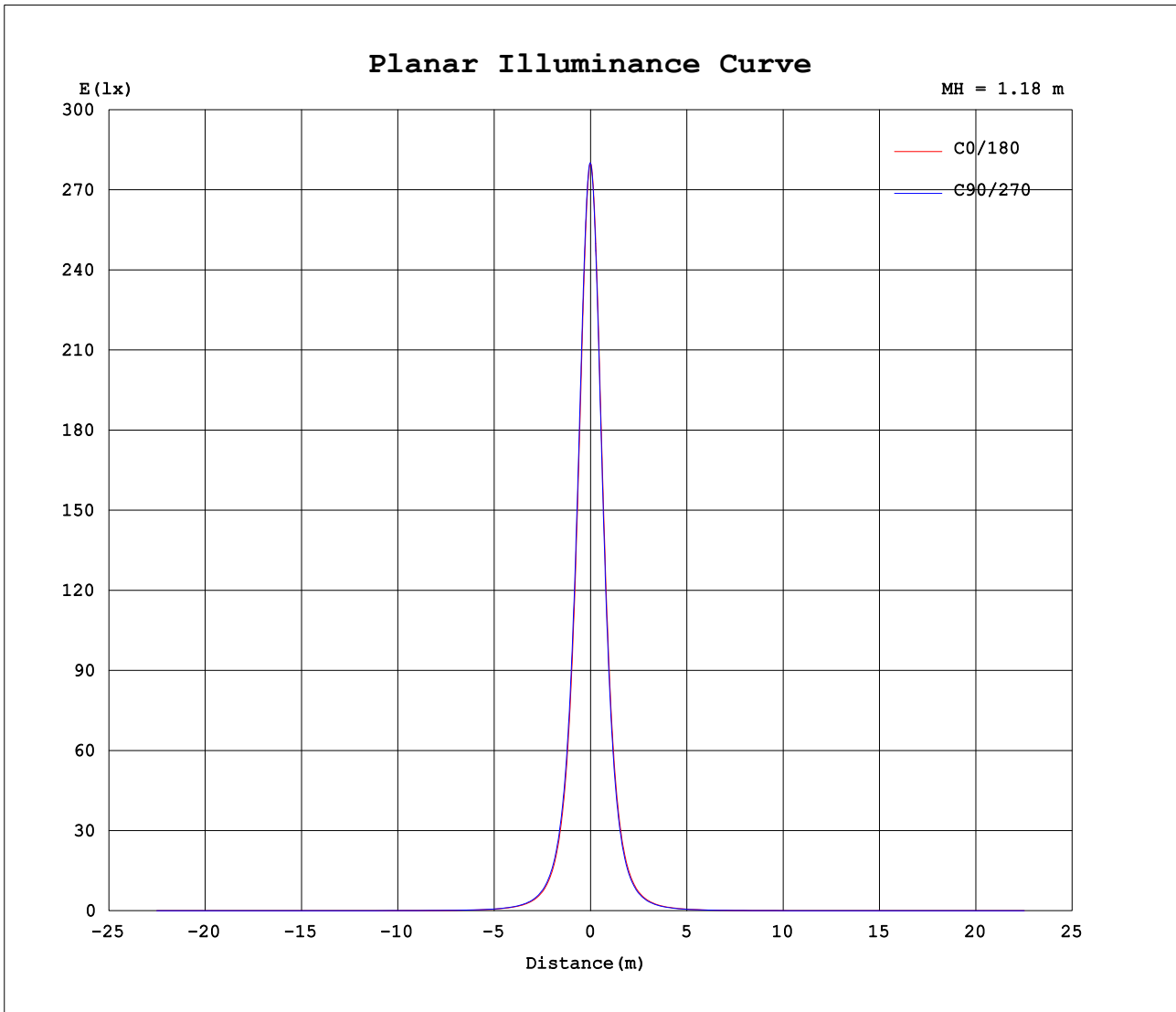
AvgL	cd/m2
L_0~180 (65) av	11814
L_0~180 (75) av	12259
L_0~180 (85) av	20642
L_90~270 (65) av	11880
L_90~270 (75) av	12335
L_90~270 (85) av	20827
L_45 (65) av	11841
L_45 (75) av	12298
L_45 (85) av	20752

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YY  
Test Date:2019-08-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity:28.2%  
Test Distance:1.191m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:YY  
Test Date:2019-08-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity:28.2%  
Test Distance:1.191m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1159A P:11.36W PF:0.8169 Freq:0Hz Lamp Flux:1161.43x1 lm		
NAME: BR40-12-827-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	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390			
5	388	388	389	390	390	390	389	388	388	387	386	386	386	386	387	387			
10	382	383	384	385	386	385	385	383	382	380	379	378	378	379	380	381			
15	372	374	376	377	378	378	376	374	372	369	368	367	367	368	369	371			
20	359	361	363	366	367	366	364	361	358	355	353	352	353	353	355	357			
25	341	344	348	350	352	351	348	345	341	338	335	334	334	335	337	339			
30	321	324	328	331	332	332	329	325	321	317	314	312	312	313	315	318			
35	296	301	305	308	310	309	306	301	297	292	289	287	287	287	290	293			
40	269	274	278	282	283	282	279	274	270	265	262	259	259	260	262	265			
45	240	245	250	253	255	254	250	246	241	236	232	230	229	230	233	236			
50	210	215	220	223	224	223	220	215	211	206	202	200	199	200	203	206			
55	181	185	189	193	194	193	190	185	181	177	173	171	170	171	173	177			
60	153	157	160	163	164	163	161	157	153	148	145	143	143	143	146	149			
65	126	130	133	136	137	136	133	130	126	122	119	117	117	118	120	123			
70	102	106	108	110	111	110	108	105	102	98.4	95.7	94.2	93.9	94.7	96.5	99.3			
75	80.5	83.4	85.9	87.6	88.1	87.2	85.3	82.5	79.7	76.9	74.7	73.5	73.2	74.0	75.7	78.1			
80	61.7	64.0	66.2	67.5	67.9	67.1	65.5	63.1	60.8	58.4	56.6	55.8	55.6	56.3	57.8	59.7			
85	45.9	47.8	49.5	50.5	50.8	50.2	48.8	46.9	45.0	43.1	41.8	41.0	40.9	41.6	42.7	44.3			
90	33.7	35.1	36.3	37.1	37.2	36.6	35.7	34.3	32.9	31.6	30.6	30.1	30.0	30.5	31.3	32.4			
95	25.1	26.0	26.8	27.3	27.3	26.9	26.3	25.3	24.5	23.6	23.0	22.7	22.6	22.9	23.5	24.2			
100	19.5	20.1	20.6	20.9	20.9	20.6	20.2	19.7	19.1	18.6	18.2	18.0	18.0	18.2	18.5	19.0			
105	15.9	16.3	16.7	16.8	16.8	16.6	16.3	16.0	15.6	15.2	14.9	14.8	14.7	14.9	15.2	15.5			
110	13.0	13.4	13.6	13.7	13.7	13.5	13.3	13.0	12.7	12.4	12.2	12.1	12.0	12.1	12.4	12.7			
115	10.6	10.9	11.1	11.1	11.1	11.0	10.8	10.6	10.3	10.1	9.90	9.78	9.76	9.86	10.0	10.3			
120	8.53	8.76	8.92	8.98	8.93	8.83	8.66	8.48	8.30	8.11	7.96	7.87	7.85	7.94	8.09	8.30			
125	6.80	6.98	7.11	7.16	7.12	7.02	6.88	6.74	6.59	6.45	6.33	6.26	6.25	6.33	6.45	6.62			
130	5.36	5.50	5.60	5.64	5.61	5.52	5.40	5.28	5.18	5.06	4.96	4.90	4.90	4.97	5.06	5.21			
135	4.15	4.27	4.35	4.38	4.34	4.26	4.16	4.07	3.98	3.90	3.82	3.78	3.78	3.84	3.91	4.03			
140	3.17	3.27	3.33	3.34	3.30	3.23	3.16	3.09	3.01	2.95	2.89	2.85	2.86	2.91	2.98	3.06			
145	2.37	2.44	2.49	2.49	2.45	2.39	2.33	2.28	2.22	2.18	2.13	2.11	2.12	2.16	2.21	2.28			
150	1.74	1.79	1.83	1.82	1.78	1.72	1.68	1.64	1.60	1.57	1.53	1.52	1.53	1.57	1.61	1.65			
155	1.26	1.29	1.32	1.30	1.27	1.22	1.19	1.15	1.13	1.11	1.09	1.09	1.09	1.13	1.16	1.19			
160	0.93	0.94	0.97	0.94	0.91	0.86	0.85	0.82	0.80	0.80	0.77	0.79	0.79	0.82	0.86	0.88			
165	0.70	0.71	0.73	0.70	0.66	0.63	0.63	0.61	0.59	0.59	0.57	0.59	0.58	0.61	0.65	0.67			
170	0.52	0.53	0.54	0.51	0.47	0.44	0.43	0.43	0.42	0.42	0.40	0.40	0.39	0.43	0.47	0.50			
175	0.34	0.31	0.24	0.26	0.27	0.21	0.17	0.20	0.24	0.24	0.19	0.15	0.14	0.14	0.12	0.16			
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  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: YY  
 Test Date: 2019-08-26

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 28.2%  
 Test Distance: 1.191m [K=1.0000]  
 Remarks: