

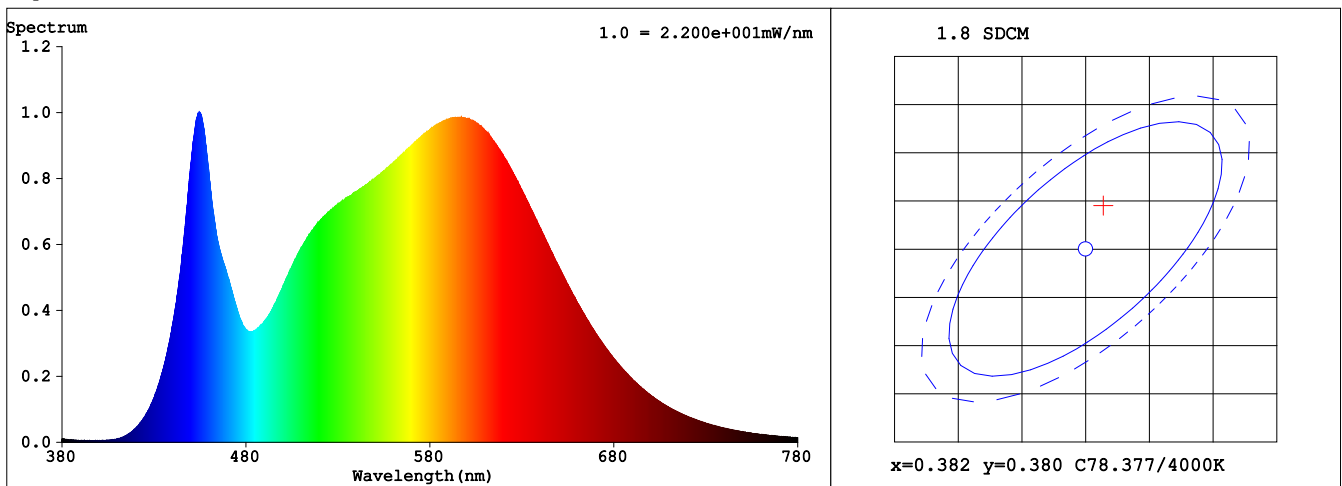
# Spectrum Test Report

Sample	:	Date	: 2019-08-29 02:50:05
Specification	:	Sam. Status	:
Sample No.	: BR40-1G840-DIM	Standard	: LM-79-08
Manufacturer	: RAB Lighting Inc	Instrument	: HaasSuite(EVERFINE)
Remark	:	Test by	: huaWenJun (2.0)

## Test Condition

Temperature	: 27.9Deg	RH	: 30.1%
WL Range	: 380nm-780nm	IP	: 48576 (74%)
Test Mode	: Fast Test	T	: 151 ms
Sensitivity	: High		

## Spectrum



## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3832$   $y = 0.3841$  /  $u' = 0.2240$   $v' = 0.5052$  ( $duv=2.62e-03$ )

CCT= 3981K Prpc WL:  $L_d=577.8nm$  Purity=30.3%

Peak WL:  $L_p=455nm$  FWHM: =26.2nm Ratio:R=18.4% G=77.8% B=3.8%

Render Index:  $R_a = 84.2$  TM30:Rf=83 Rg=94

R1 =83 R2 =91 R3 =96 R4 =82 R5 =82 R6 =87 R7 =87

R8 =66 R9 =14 R10=77 R11=81 R12=62 R13=85 R14=98 R15=76

LEVEL:OUT WHITE:ANSI\_4000K

## Photometric & Radiometric Parameters

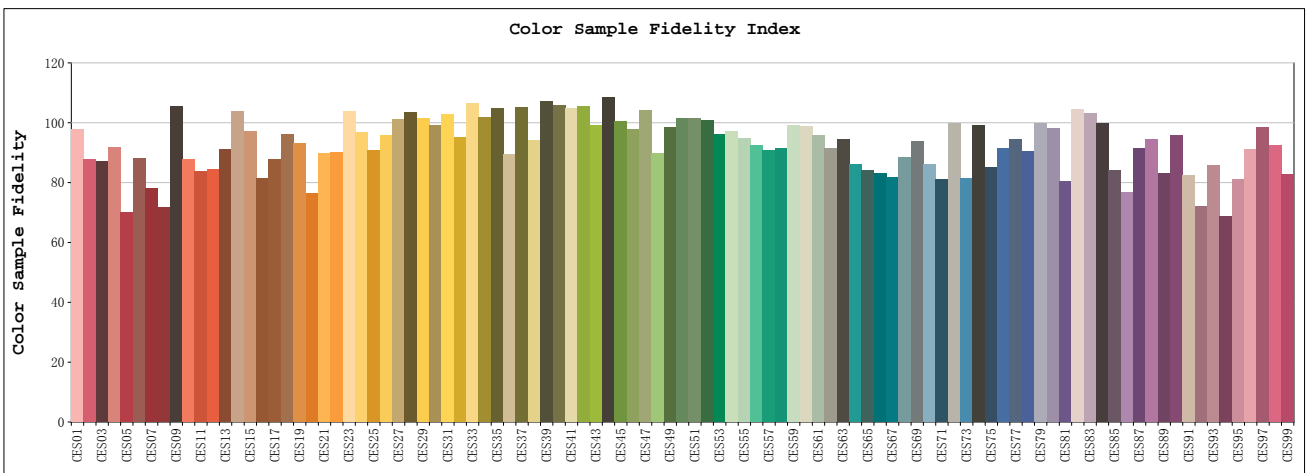
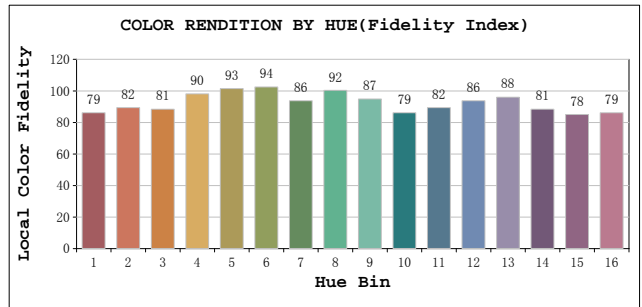
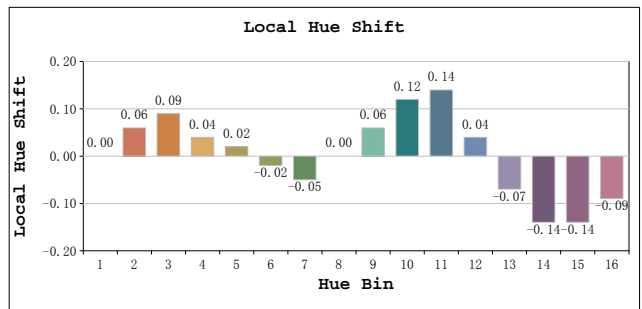
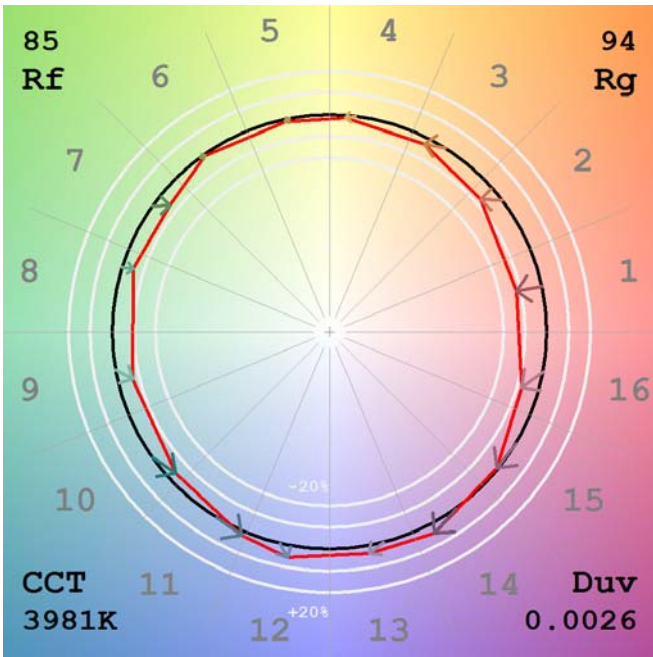
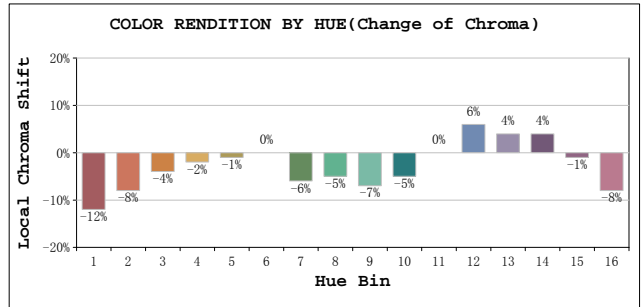
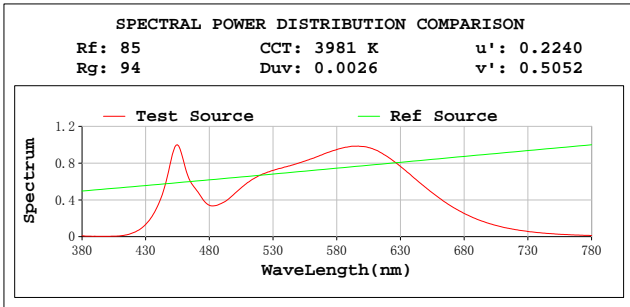
Flux = 1266.5 lm Eff. : 109.18 lm/W Fe = 3.8582 W

Flux of emitted photons( $\mu mol/s$ ):18.203 Fluo. and blue light ratio:4.930 Fluorescent eff.:229.3

## Electrical parameters

V = 120.09 V I = 0.1165 A P = 11.60 W PF = 0.8291

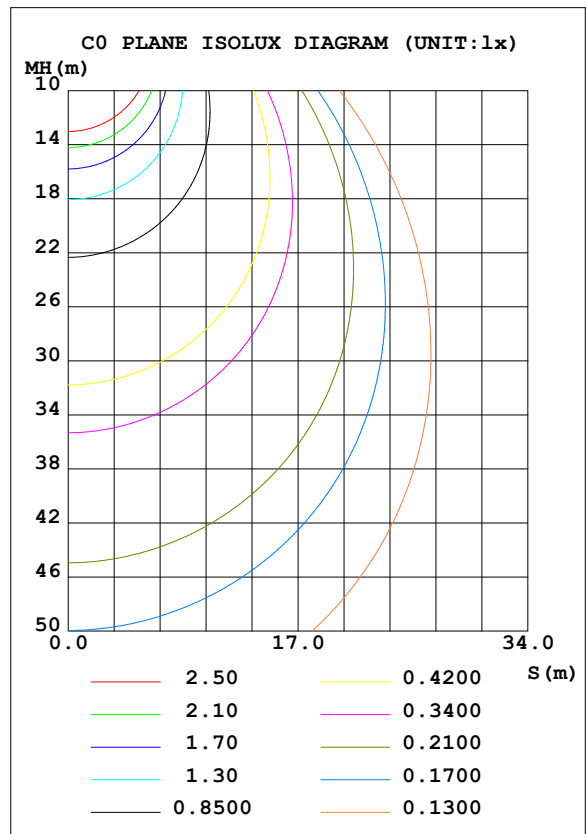
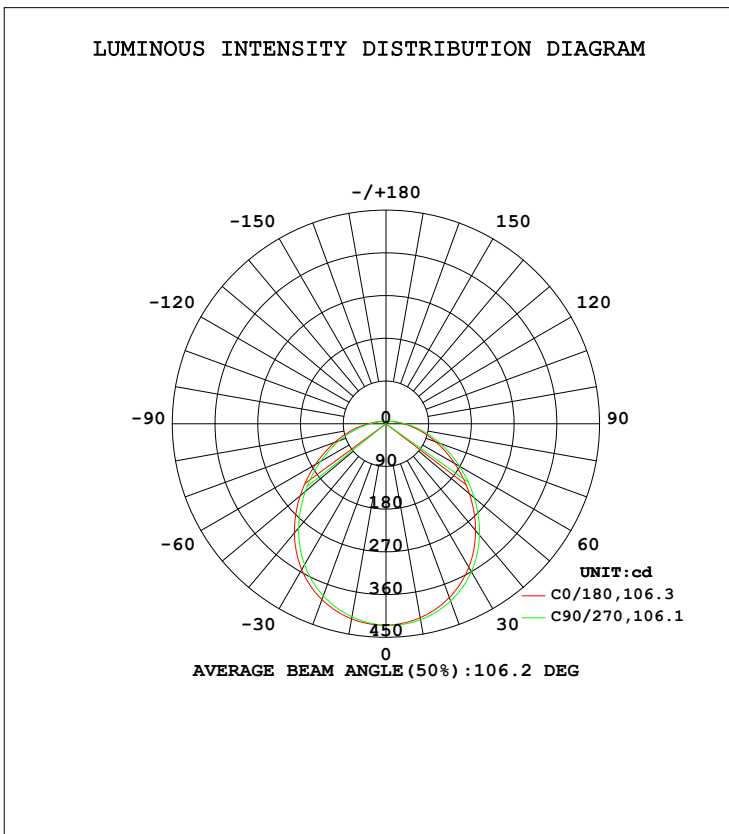
# TM30



LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.9V I:0.1185A P:11.56W PF:0.8136 Freq:0Hz Lamp Flux:1279.07x1 lm		
NAME: BR40-12-840-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.65 lm/W			
MODEL	/	I <sub>max</sub> (cd)	425.1	S/MH (C0/180)	1.24
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1279.1	η UP, DN (C0-180)	3.1, 48.2
NOMINAL FLUX (lm)	1279.07	CIE CLASS	DIRECT	η UP, DN (C180-360)	2.8, 46.0
LAMPS INSIDE	1	η up (%)	5.8	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	94.2	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:

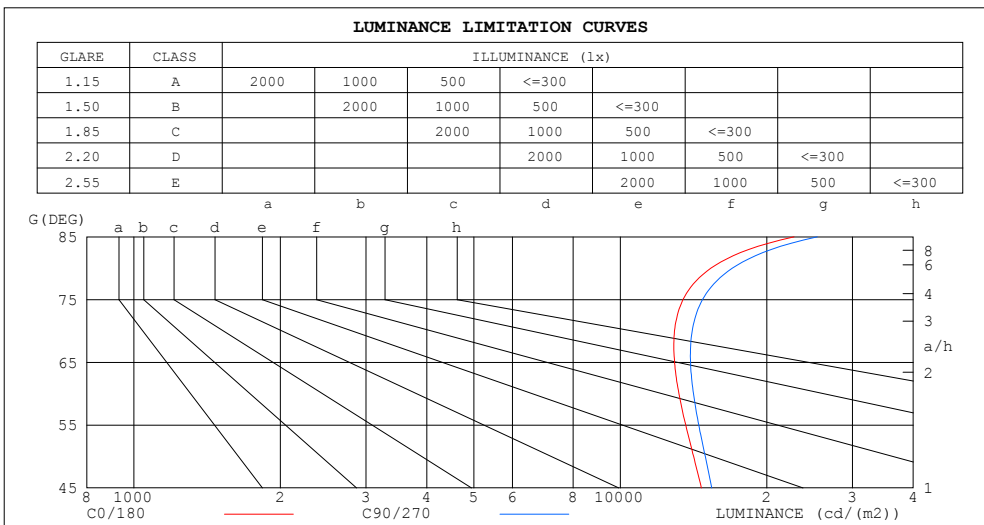
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	421.5	423.1	423.9	424.2	422.9	421.7	420.6	421.1	0- 5	10.13	10.13	0.79,0.79
10	414.9	417.9	419.2	419.1	417.3	415.0	413.1	413.4	5- 10	30.00	40.13	3.14,3.14
15	404.3	408.5	410.3	409.9	407.8	404.3	401.5	401.8	10- 15	48.78	88.91	6.95,6.95
20	389.9	395.2	397.6	396.8	394.3	389.8	385.9	386.2	15- 20	65.78	154.7	12.1,12.1
25	371.5	377.8	380.6	379.7	376.6	371.1	366.4	367.0	20- 25	80.34	235.0	18.4,18.4
30	349.0	356.3	359.7	358.7	355.0	348.4	343.1	344.0	25- 30	91.85	326.9	25.6,25.6
35	322.8	330.9	334.7	333.6	329.3	322.0	316.2	317.3	30- 35	99.80	426.7	33.4,33.4
40	293.6	302.2	306.4	305.0	300.2	292.3	286.3	287.6	35- 40	103.9	530.5	41.5,41.5
45	262.2	270.8	275.3	273.9	268.7	260.5	254.5	256.0	40- 45	104.0	634.5	49.6,49.6
50	229.7	238.3	242.7	241.2	235.9	227.7	221.9	223.4	45- 50	100.5	735.1	57.5,57.5
55	197.6	205.9	210.1	208.4	203.1	195.3	190.0	191.6	50- 55	94.02	829.1	64.8,64.8
60	166.7	174.6	178.6	176.8	171.5	164.2	159.5	161.1	55- 60	85.25	914.3	71.5,71.5
65	137.9	145.2	148.8	147.1	142.0	135.1	131.1	132.8	60- 65	75.02	989.4	77.4,77.4
70	111.6	118.2	121.4	119.7	114.9	108.7	105.2	106.7	65- 70	64.00	1053	82.4,82.4
75	87.95	93.79	96.47	94.88	90.47	85.10	82.06	83.50	70- 75	52.81	1106	86.5,86.5
80	67.32	72.29	74.50	73.07	69.18	64.64	62.18	63.46	75- 80	42.01	1148	89.8,89.8
85	50.09	54.18	55.92	54.64	51.43	47.79	45.85	46.91	80- 85	32.23	1180	92.3,92.3
90	36.74	39.80	41.06	40.10	37.66	34.96	33.70	34.45	85- 90	23.95	1204	94.2,94.2
95	27.45	29.49	30.39	29.71	27.95	26.12	25.37	25.92	90- 95	17.66	1222	95.5,95.5
100	21.50	22.82	23.40	22.92	21.75	20.58	20.16	20.57	95-100	13.33	1235	96.6,96.6
105	17.58	18.54	18.93	18.61	17.70	16.81	16.51	16.87	100-105	10.49	1246	97.4,97.4
110	14.39	15.17	15.50	15.24	14.46	13.71	13.48	13.80	105-110	8.387	1254	98.1,98.1
115	11.70	12.35	12.61	12.39	11.73	11.11	10.93	11.21	110-115	6.624	1261	98.6,98.6
120	9.453	9.977	10.19	9.996	9.437	8.913	8.776	9.019	115-120	5.148	1266	99.99
125	7.551	7.975	8.146	7.974	7.520	7.070	6.965	7.183	120-125	3.925	1270	99.3,99.3
130	5.957	6.306	6.433	6.292	5.916	5.541	5.457	5.642	125-130	2.927	1273	99.5,99.5
135	4.625	4.909	5.008	4.890	4.568	4.251	4.184	4.347	130-135	2.125	1275	99.7,99.7
140	3.529	3.762	3.842	3.741	3.478	3.206	3.156	3.295	135-140	1.496	1276	99.8,99.8
145	2.631	2.826	2.891	2.803	2.587	2.361	2.320	2.430	140-145	1.017	1277	99.9,99.9
150	1.917	2.077	2.125	2.051	1.880	1.699	1.659	1.742	145-150	0.6612	1278	99.9,99.9
155	1.381	1.512	1.542	1.480	1.347	1.214	1.165	1.233	150-155	0.4108	1279	100,100
160	1.006	1.116	1.127	1.078	0.9746	0.8838	0.8388	0.8837	155-160	0.2458	1279	100,100
165	0.7481	0.8506	0.8445	0.8136	0.7232	0.6583	0.6356	0.6515	160-165	0.1430	1279	100,100
170	0.5378	0.6418	0.6224	0.6013	0.5352	0.4639	0.4053	0.4487	165-170	0.0768	1279	100,100
175	0.2749	0.3155	0.4017	0.3053	0.2526	0.2402	0.1568	0.2097	170-175	0.0305	1279	100,100
180	0.0006	0.0008	0.0005	0.0006	0.0004	0.0005	0.0006	0.0007	175-180	0.0034	1279	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:119.9V I:0.1185A P:11.56W PF:0.8136 Freq:0Hz Lamp Flux:1279.07x1 lm		
NAME: BR40-12-840-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22750	25401
80	15347	16984
75	13452	14756
70	12918	14050
65	12922	13943
60	13198	14140
55	13637	14501
50	14145	14949
45	14677	15414

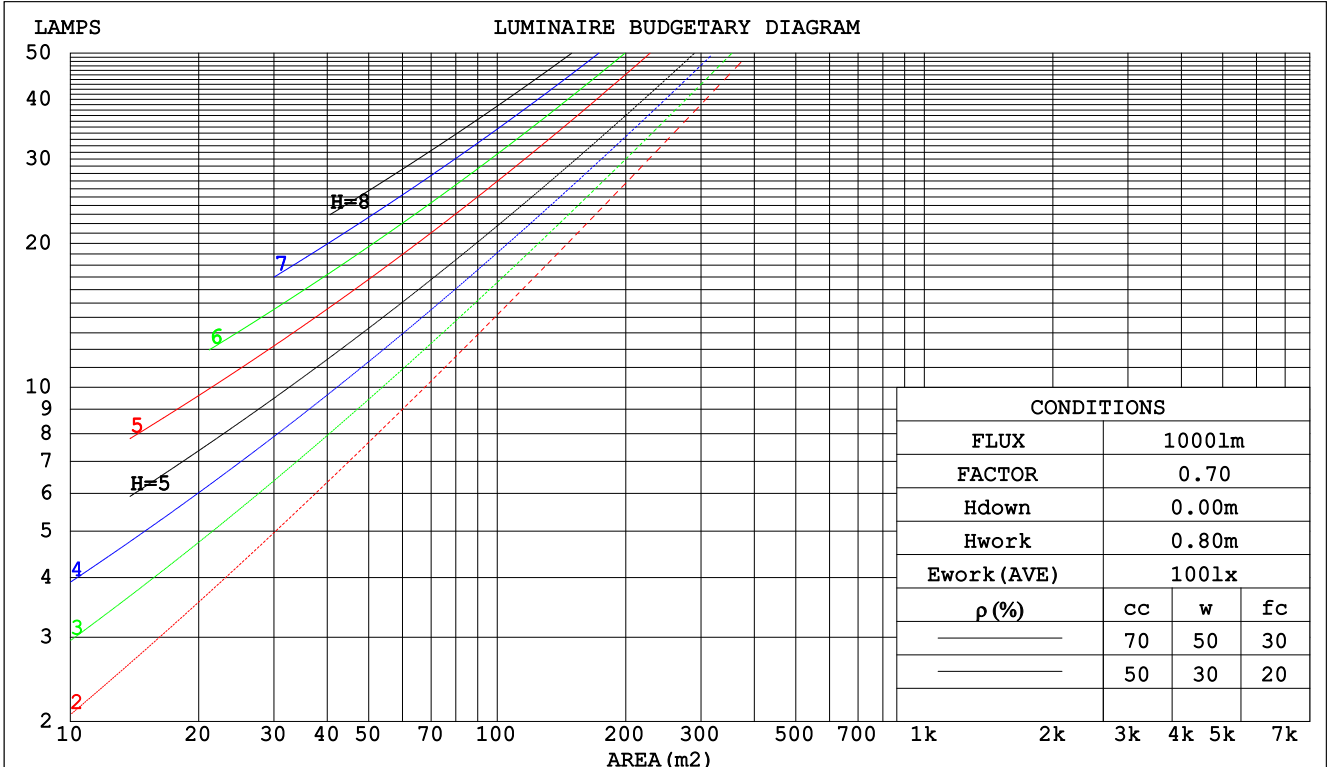
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: YY  
 Test Date: 2019-08-26

$\gamma$  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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.9V I:0.1185A P:11.56W PF:0.8136 Freq:0Hz Lamp Flux:1279.07x1 lm		
NAME: BR40-12-840-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	.89	.86	.88	.85	.83	.83	.81	.79	.77
2.0	.88	.81	.75	.86	.79	.73	.81	.76	.71	.77	.72	.68	.73	.69	.66	.63
3.0	.77	.69	.62	.75	.67	.61	.71	.65	.59	.68	.62	.58	.64	.60	.56	.53
4.0	.68	.59	.53	.67	.58	.52	.63	.56	.51	.60	.54	.49	.58	.52	.48	.46
5.0	.61	.52	.45	.60	.51	.45	.57	.49	.44	.54	.48	.43	.52	.46	.42	.39
6.0	.55	.46	.40	.54	.45	.39	.51	.44	.38	.49	.43	.38	.47	.41	.37	.35
7.0	.50	.41	.35	.49	.41	.35	.47	.39	.34	.45	.38	.33	.43	.37	.33	.31
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.30	.41	.35	.30	.40	.34	.29	.27
9.0	.42	.34	.28	.41	.33	.28	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.36	.30	.25	.35	.29	.25	.34	.28	.24	.22



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:119.9V I:0.1185A P:11.56W PF:0.8136 Freq:0Hz Lamp Flux:1279.07x1 lm		
NAME: BR40-12-840-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	.335	.190	.060	.326	.186	.059	.309	.177	.057	.294	.169	.054	.280	.162	.052	
2.0	.302	.166	.051	.294	.162	.050	.280	.155	.048	.266	.149	.047	.253	.143	.045	
3.0	.275	.146	.044	.268	.143	.043	.255	.138	.042	.242	.133	.041	.231	.128	.040	
4.0	.251	.131	.038	.245	.128	.038	.233	.124	.037	.222	.119	.036	.212	.115	.035	
5.0	.231	.118	.034	.225	.116	.034	.215	.112	.033	.205	.108	.032	.196	.105	.031	
6.0	.214	.107	.031	.208	.105	.030	.199	.102	.030	.190	.099	.029	.182	.096	.028	
7.0	.198	.098	.028	.194	.097	.028	.185	.094	.027	.177	.091	.026	.169	.088	.026	
8.0	.185	.090	.025	.181	.089	.025	.173	.086	.025	.166	.084	.024	.159	.081	.024	
9.0	.173	.084	.023	.169	.083	.023	.162	.080	.023	.155	.078	.022	.149	.076	.022	
10.0	.163	.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	.235	.235	.235	.201	.201	.201	.137	.137	.137	.079	.079	.079	.025	.025	.025	
1.0	.227	.201	.177	.194	.172	.153	.133	.119	.106	.076	.069	.061	.024	.022	.020	
2.0	.219	.177	.142	.187	.152	.123	.128	.105	.086	.074	.061	.050	.024	.020	.016	
3.0	.211	.160	.119	.181	.138	.103	.124	.096	.072	.072	.056	.043	.023	.018	.014	
4.0	.203	.147	.104	.174	.127	.090	.120	.088	.063	.069	.052	.037	.022	.017	.012	
5.0	.195	.136	.093	.168	.118	.081	.116	.082	.057	.067	.048	.034	.022	.016	.011	
6.0	.188	.128	.085	.162	.111	.074	.112	.078	.052	.065	.046	.031	.021	.015	.010	
7.0	.181	.121	.079	.156	.105	.069	.108	.074	.049	.063	.043	.029	.020	.014	.010	
8.0	.175	.116	.075	.150	.100	.065	.104	.070	.046	.061	.042	.028	.020	.014	.009	
9.0	.169	.111	.071	.145	.096	.062	.101	.068	.044	.059	.040	.026	.019	.013	.009	
10.0	.163	.106	.069	.140	.092	.060	.097	.065	.043	.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:119.9V I:0.1185A P:11.56W PF:0.8136 Freq:0Hz Lamp Flux:1279.07x1 lm										
NAME: BR40-12-840-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	21.5	22.9	21.8	23.2	23.6	21.7	23.2	22.1	23.5	23.8
3H	23.1	24.4	23.5	24.8	25.1	23.4	24.7	23.8	25.1	25.4
4H	23.8	25.1	24.2	25.5	25.9	24.2	25.5	24.6	25.9	26.2
6H	24.6	25.8	25.0	26.2	26.6	25.0	26.2	25.5	26.6	27.0
8H	25.0	26.2	25.4	26.6	27.0	25.5	26.6	25.9	27.0	27.4
12H	25.4	26.6	25.9	27.0	27.4	25.9	27.1	26.4	27.5	27.9
4H 2H	22.1	23.4	22.5	23.7	24.1	22.3	23.6	22.7	23.9	24.3
3H	23.9	25.1	24.4	25.5	25.9	24.2	25.3	24.6	25.7	26.2
4H	24.9	25.9	25.3	26.3	26.8	25.2	26.2	25.7	26.6	27.1
6H	25.8	26.7	26.3	27.2	27.7	26.2	27.1	26.7	27.6	28.1
8H	26.3	27.2	26.8	27.6	28.1	26.7	27.6	27.2	28.0	28.6
12H	26.8	27.6	27.4	28.1	28.7	27.3	28.1	27.8	28.6	29.1
8H 4H	25.3	26.1	25.8	26.6	27.1	25.6	26.4	26.1	26.9	27.4
6H	26.5	27.2	27.0	27.7	28.2	26.8	27.5	27.3	28.0	28.6
8H	27.1	27.8	27.7	28.3	28.9	27.5	28.1	28.0	28.7	29.2
12H	27.9	28.4	28.4	29.0	29.6	28.3	28.8	28.8	29.4	30.0
12H 4H	25.3	26.1	25.9	26.6	27.2	25.6	26.4	26.1	26.9	27.4
6H	26.6	27.3	27.2	27.8	28.4	26.9	27.6	27.5	28.1	28.7
8H	27.4	27.9	27.9	28.5	29.1	27.7	28.3	28.3	28.8	29.4
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, 1279 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.9)

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:119.9V I:0.1185A P:11.56W PF:0.8136 Freq:0Hz Lamp Flux:1279.07x1 lm		
NAME: BR40-12-840-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

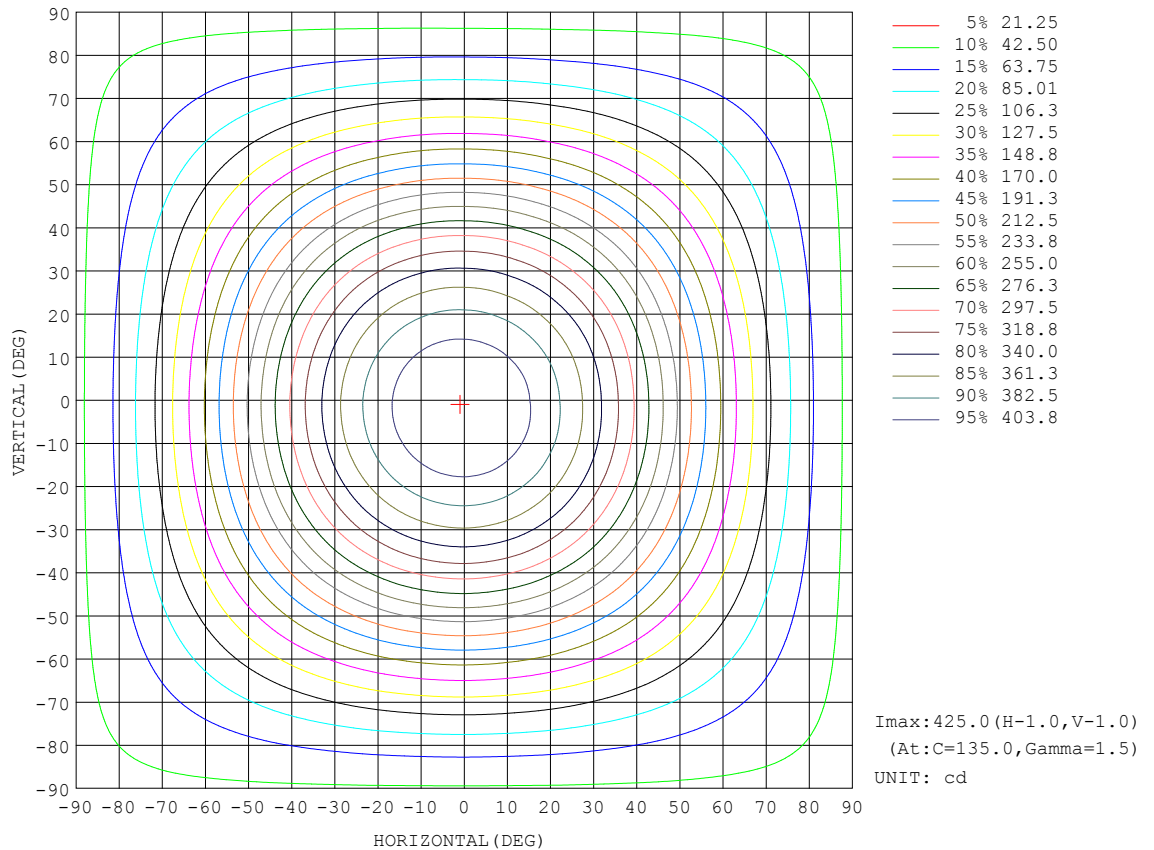
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	53	43	37	30
0.80	65	53	46	64	53	46	62	52	45	38
1.00	73	62	54	72	61	54	69	62	53	46
1.25	80	69	62	78	68	61	75	66	60	52
1.50	85	74	67	83	73	66	79	71	65	57
2.00	92	82	75	90	81	75	85	78	73	64
2.50	96	87	81	93	85	79	89	82	77	68
3.00	99	91	85	96	90	84	92	86	81	71
4.00	103	97	91	100	95	90	95	90	86	76
5.00	106	100	95	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:119.9V I:0.1185A P:11.56W PF:0.8136 Freq:0Hz Lamp Flux:1279.07x1 lm		
NAME: BR40-12-840-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

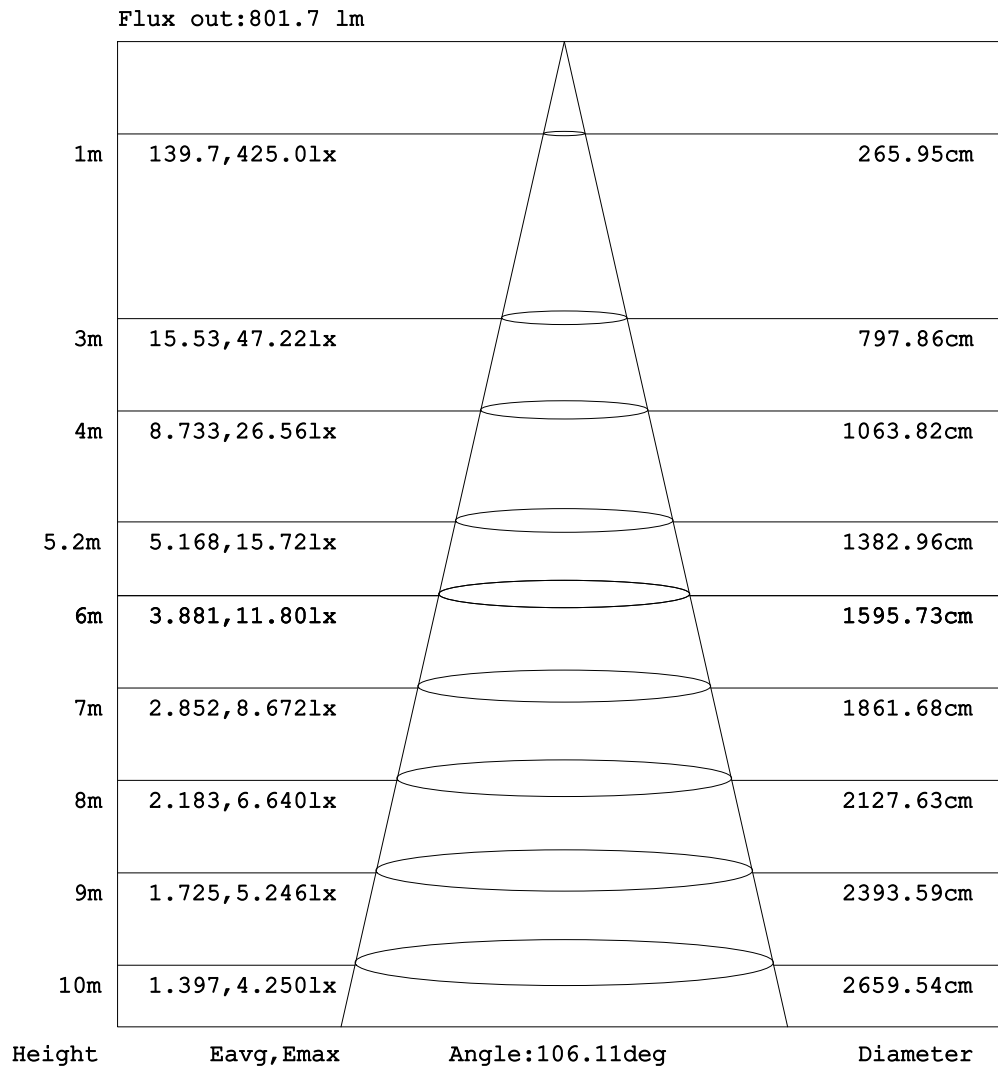


C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: YY  
 Test Date: 2019-08-26

$\gamma$  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:119.9V I:0.1185A P:11.56W PF:0.8136 Freq:0Hz Lamp Flux:1279.07x1 lm		
NAME: BR40-12-840-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /



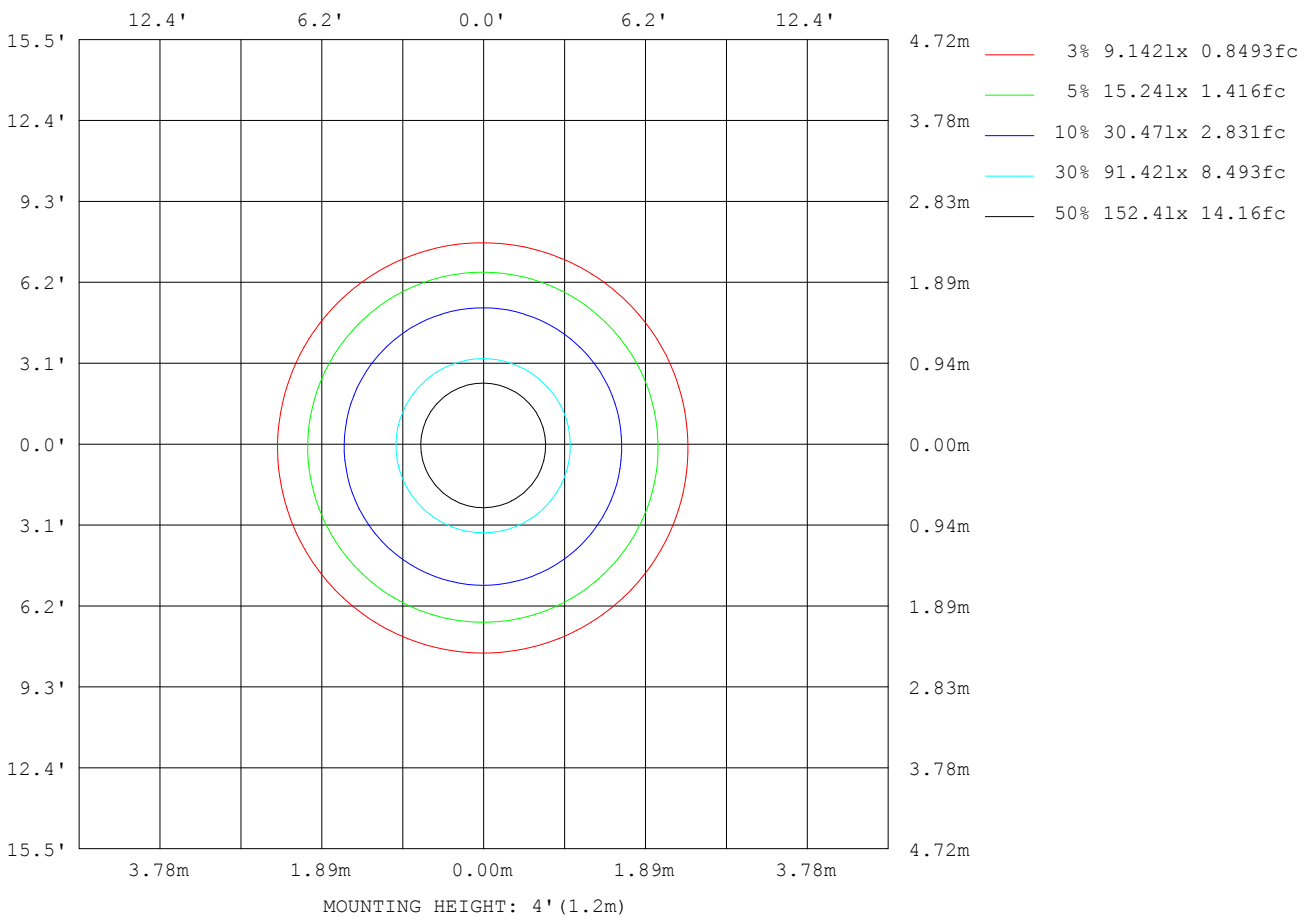
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.9V I:0.1185A P:11.56W PF:0.8136 Freq:0Hz Lamp Flux:1279.07x1 lm		
NAME: BR40-12-840-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:119.9V I:0.1185A P:11.56W PF:0.8136 Freq:0Hz Lamp Flux:1279.07x1 lm		
NAME: BR40-12-840-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

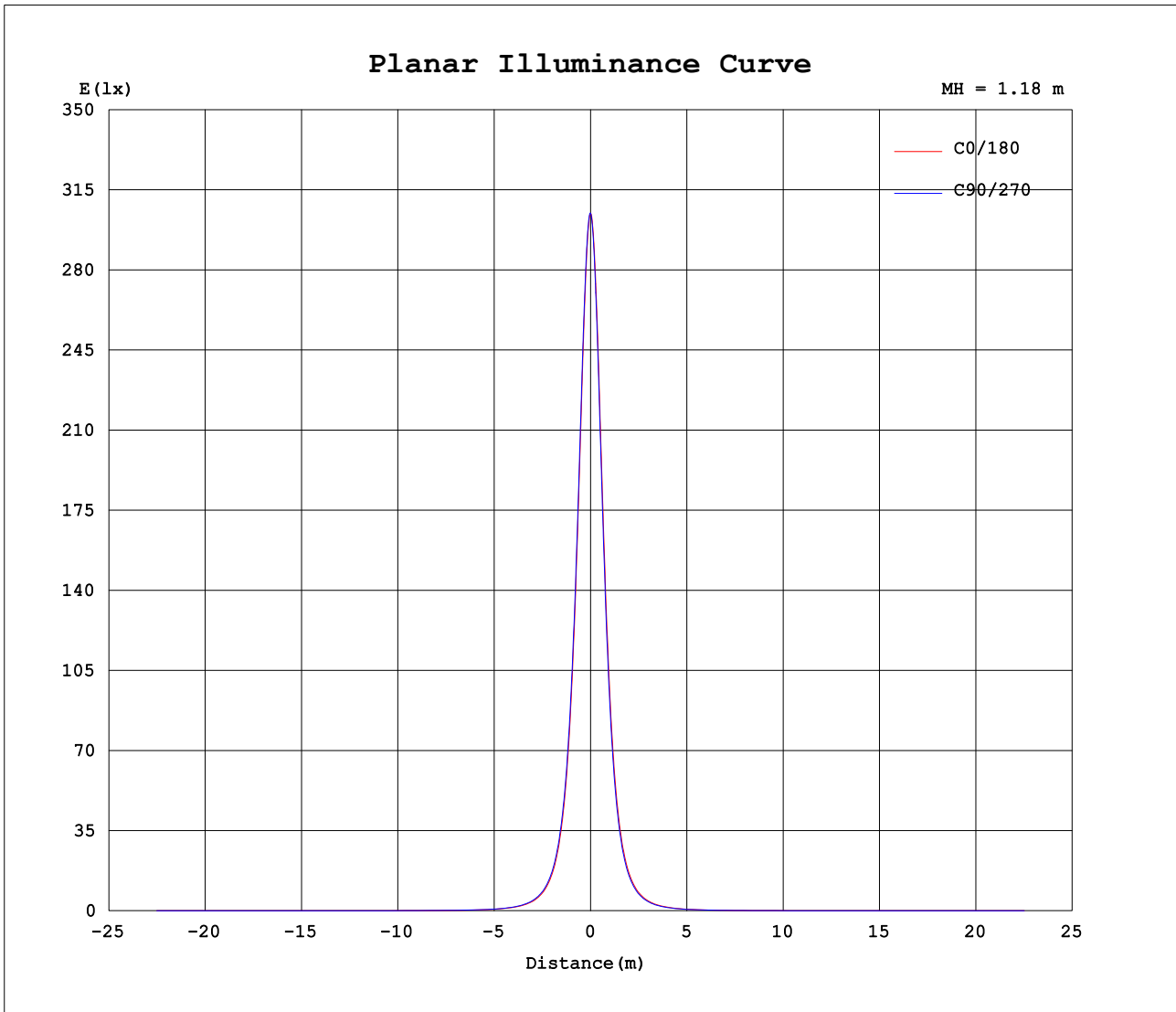
AvgL	cd/m2
L_0~180 (65) av	13110
L_0~180 (75) av	13645
L_0~180 (85) av	23054
L_90~270 (65) av	13113
L_90~270 (75) av	13654
L_90~270 (85) av	23113
L_45 (65) av	13118
L_45 (75) av	13661
L_45 (85) av	23111

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:119.9V I:0.1185A P:11.56W PF:0.8136 Freq:0Hz Lamp Flux:1279.07x1 lm		
NAME: BR40-12-840-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	424	425	424	424	424	425	425	425	424	425	424	424	424	425	425	425			
5	422	423	423	424	424	424	424	424	423	422	422	421	421	421	421	421			
10	415	417	418	419	419	419	419	419	417	416	415	414	413	413	413	414			
15	404	407	409	410	410	410	410	409	408	406	404	403	401	401	402	403			
20	390	393	395	397	398	398	397	396	394	392	390	387	386	385	386	388			
25	371	375	378	380	381	381	380	378	377	374	371	368	366	366	367	369			
30	349	353	356	359	360	360	359	357	355	352	348	345	343	343	344	347			
35	323	327	331	333	335	335	334	332	329	326	322	318	316	316	317	320			
40	294	298	302	305	306	306	305	303	300	296	292	289	286	286	288	291			
45	262	267	271	274	275	275	274	271	269	265	260	257	255	254	256	259			
50	230	234	238	241	243	243	241	239	236	232	228	224	222	222	223	227			
55	198	202	206	209	210	210	208	206	203	199	195	192	190	190	192	195			
60	167	171	175	177	179	178	177	174	172	168	164	161	160	160	161	164			
65	138	142	145	148	149	149	147	145	142	138	135	133	131	131	133	135			
70	112	115	118	120	121	121	120	117	115	112	109	106	105	105	107	109			
75	87.9	90.9	93.8	95.7	96.5	96.2	94.9	92.9	90.5	87.6	85.1	83.1	82.1	82.2	83.5	85.7			
80	67.3	70.0	72.3	73.9	74.5	74.2	73.1	71.3	69.2	66.8	64.6	63.1	62.2	62.3	63.5	65.3			
85	50.1	52.2	54.2	55.5	55.9	55.6	54.6	53.2	51.4	49.5	47.8	46.5	45.8	46.0	46.9	48.4			
90	36.7	38.3	39.8	40.8	41.1	40.8	40.1	39.0	37.7	36.2	35.0	34.1	33.7	33.8	34.4	35.5			
95	27.4	28.5	29.5	30.2	30.4	30.2	29.7	28.9	28.0	26.9	26.1	25.6	25.4	25.5	25.9	26.7			
100	21.5	22.2	22.8	23.3	23.4	23.3	22.9	22.4	21.8	21.1	20.6	20.3	20.2	20.2	20.6	21.0			
105	17.6	18.0	18.5	18.8	18.9	18.9	18.6	18.2	17.7	17.2	16.8	16.6	16.5	16.6	16.9	17.2			
110	14.4	14.8	15.2	15.4	15.5	15.4	15.2	14.9	14.5	14.0	13.7	13.5	13.5	13.6	13.8	14.1			
115	11.7	12.0	12.4	12.5	12.6	12.6	12.4	12.1	11.7	11.4	11.1	11.0	10.9	11.0	11.2	11.5			
120	9.45	9.73	9.98	10.1	10.2	10.1	10.00	9.75	9.44	9.13	8.91	8.79	8.78	8.85	9.02	9.23			
125	7.55	7.78	7.97	8.10	8.15	8.10	7.97	7.77	7.52	7.26	7.07	6.97	6.96	7.04	7.18	7.36			
130	5.96	6.15	6.31	6.40	6.43	6.40	6.29	6.13	5.92	5.70	5.54	5.46	5.46	5.52	5.64	5.80			
135	4.63	4.79	4.91	4.98	5.01	4.98	4.89	4.76	4.57	4.39	4.25	4.19	4.18	4.24	4.35	4.48			
140	3.53	3.66	3.76	3.82	3.84	3.81	3.74	3.64	3.48	3.32	3.21	3.15	3.16	3.21	3.30	3.41			
145	2.63	2.75	2.83	2.87	2.89	2.87	2.80	2.72	2.59	2.47	2.36	2.32	2.32	2.36	2.43	2.53			
150	1.92	2.01	2.08	2.11	2.12	2.11	2.05	1.99	1.88	1.79	1.70	1.67	1.66	1.69	1.74	1.82			
155	1.38	1.46	1.51	1.53	1.54	1.53	1.48	1.44	1.35	1.30	1.21	1.19	1.16	1.19	1.23	1.30			
160	1.01	1.07	1.12	1.13	1.13	1.11	1.08	1.06	0.97	0.95	0.88	0.86	0.84	0.86	0.88	0.94			
165	0.75	0.80	0.85	0.86	0.84	0.84	0.81	0.81	0.72	0.71	0.66	0.64	0.64	0.63	0.65	0.70			
170	0.54	0.58	0.64	0.65	0.62	0.62	0.60	0.58	0.54	0.53	0.46	0.43	0.41	0.44	0.45	0.51			
175	0.27	0.34	0.32	0.33	0.40	0.38	0.31	0.24	0.25	0.26	0.24	0.16	0.16	0.16	0.21	0.17			
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  
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 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
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