

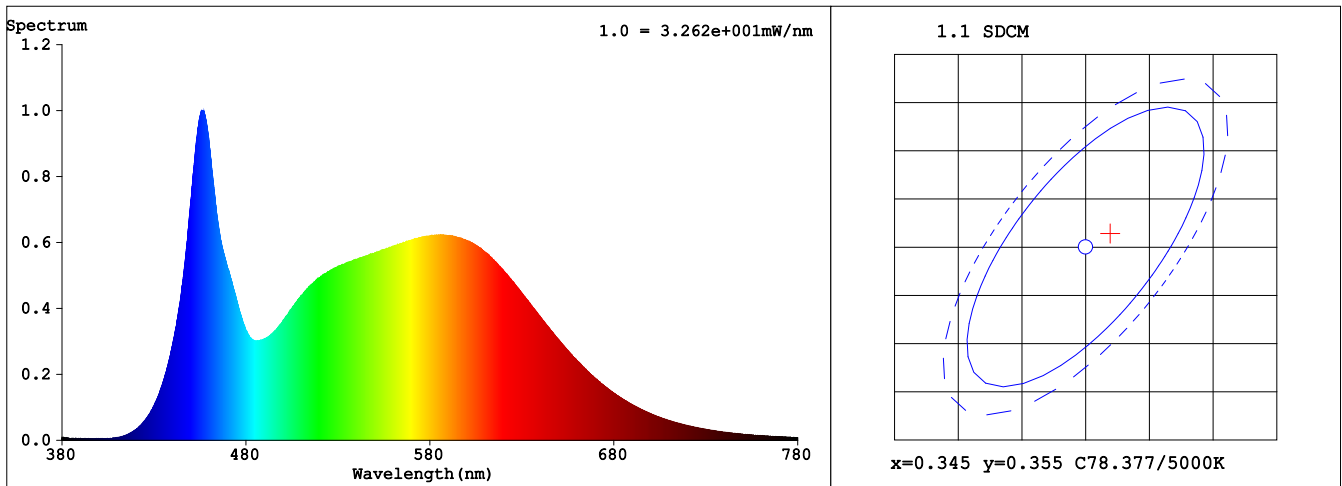
# Spectrum Test Report

Sample	:	Date	: 2019-08-29 03:49:15
Specification	:	Sam. Status	:
Sample No.	: BR40-12-850-DIM	Standard	: LM-79-08
Manufacturer	: RAB Lighting Inc	Instrument	: HaasSuite(EVERFINE)
Remark	:	Test by	: huaWenJun (2.0)

## Test Condition

Temperature	: 28.1Deg	RH	: 30.1%
WL Range	: 380nm-780nm	IP	: 45621 (70%)
Test Mode	: Fast Test	T	: 151 ms
Sensitivity	: High		

## Spectrum



## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3466$   $y = 0.3565$  /  $u' = 0.2105$   $v' = 0.4872$  ( $duv=1.83e-03$ )

CCT= 4962K Prpc WL:  $L_d=571.5nm$  Purity=10.9%

Peak WL:  $L_p=456nm$  FWHM: =25.2nm Ratio:R=16.1% G=78.8% B=5.1%

Render Index:  $R_a = 84.7$  TM30:Rf=82 Rg=94

R1 =84 R2 =93 R3 =95 R4 =80 R5 =83 R6 =88 R7 =87

R8 =69 R9 =17 R10=81 R11=79 R12=58 R13=87 R14=98 R15=79

LEVEL:OUT WHITE:ANSI\_5000K

## Photometric & Radiometric Parameters

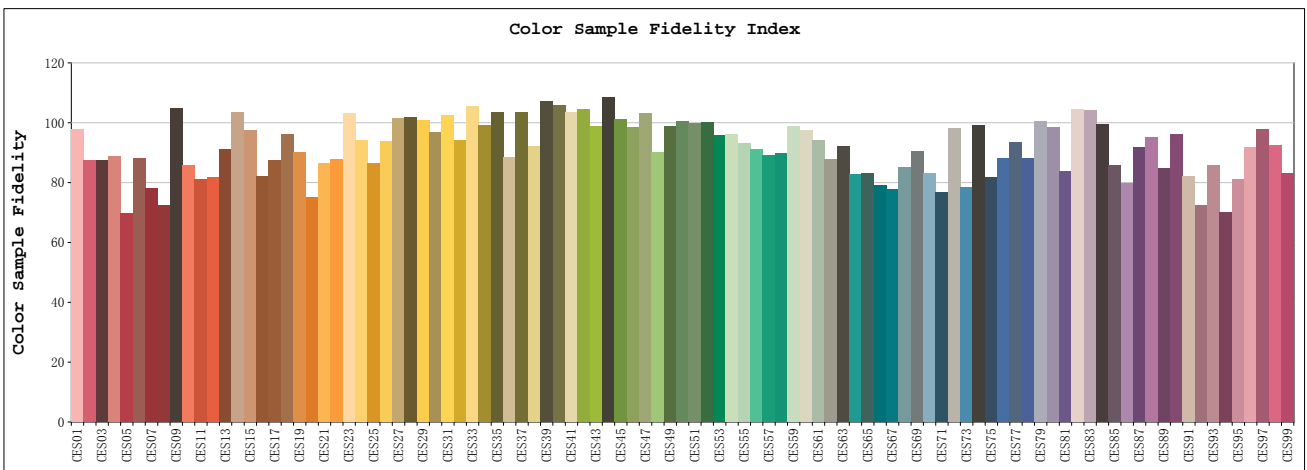
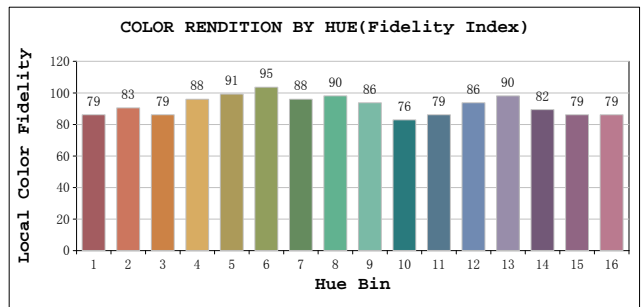
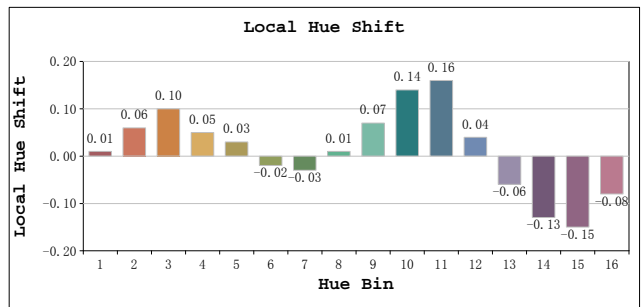
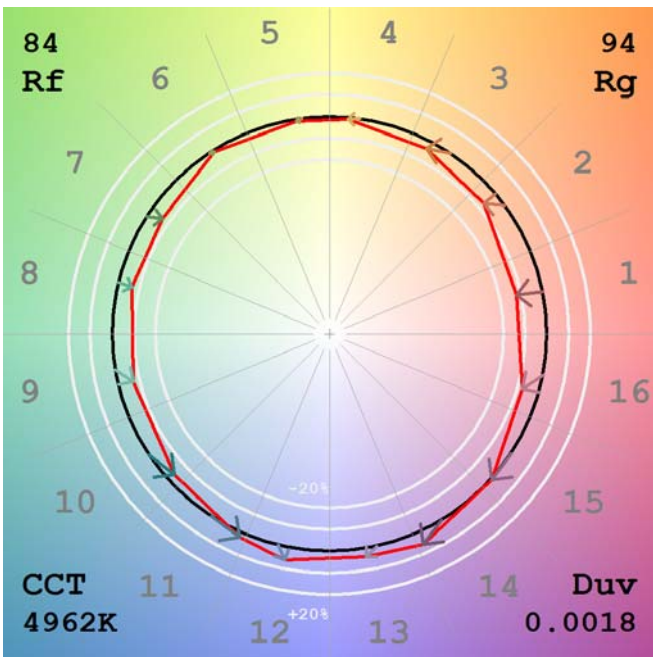
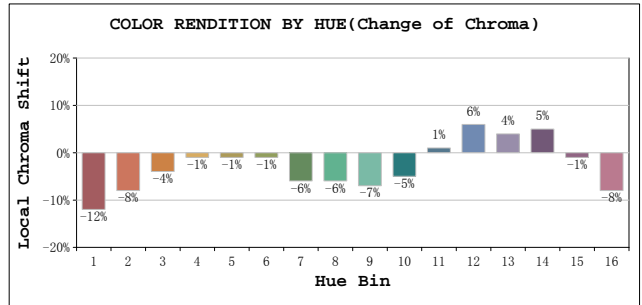
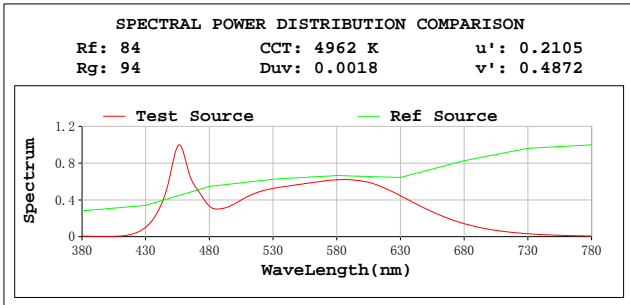
Flux = 1280.5 lm Eff. : 112.03 lm/W Fe = 4.0338 W

Flux of emitted photons( $\mu mol/s$ ):18.618 Fluo. and blue light ratio:3.151 Fluorescent eff.:222.1

## Electrical parameters

V = 120.04 V I = 0.1149 A P = 11.43 W PF = 0.8287

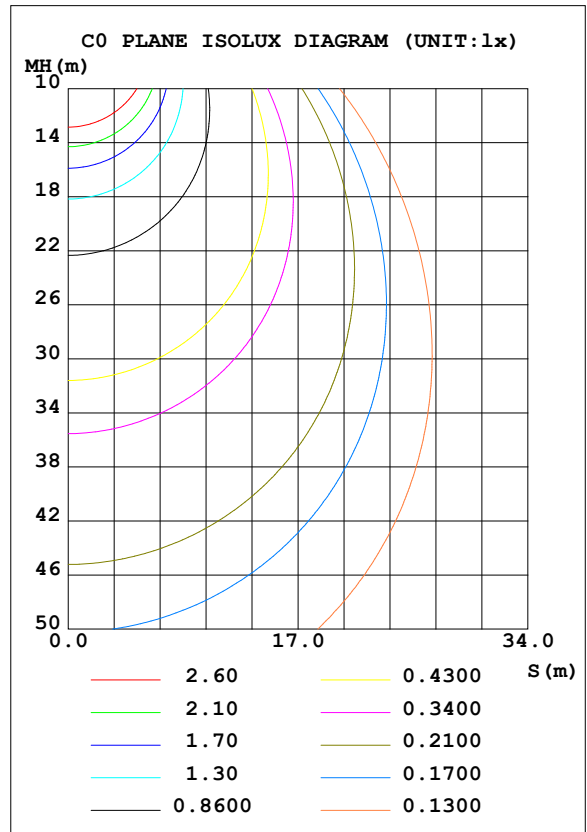
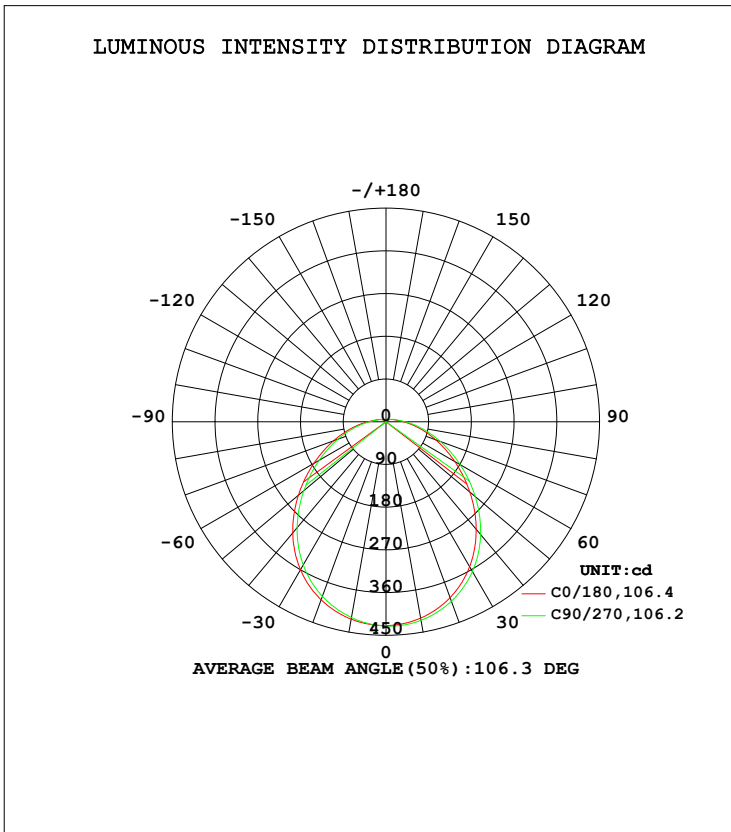
# TM30



LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.9V I:0.1171A P:11.43W PF:0.8141 Freq:0Hz Lamp Flux:1296.49x1 lm		
NAME: BR40-12-850-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

DATA OF LAMP		PHOTOMETRIC DATA Eff: 113.43 lm/W			
MODEL	/	I <sub>max</sub> (cd)	431.3	S/MH (C0/180)	1.25
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1296.5	η UP, DN (C0-180)	3.0, 48.1
NOMINAL FLUX (lm)	1296.49	CIE CLASS	DIRECT	η UP, DN (C180-360)	2.8, 46.1
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:

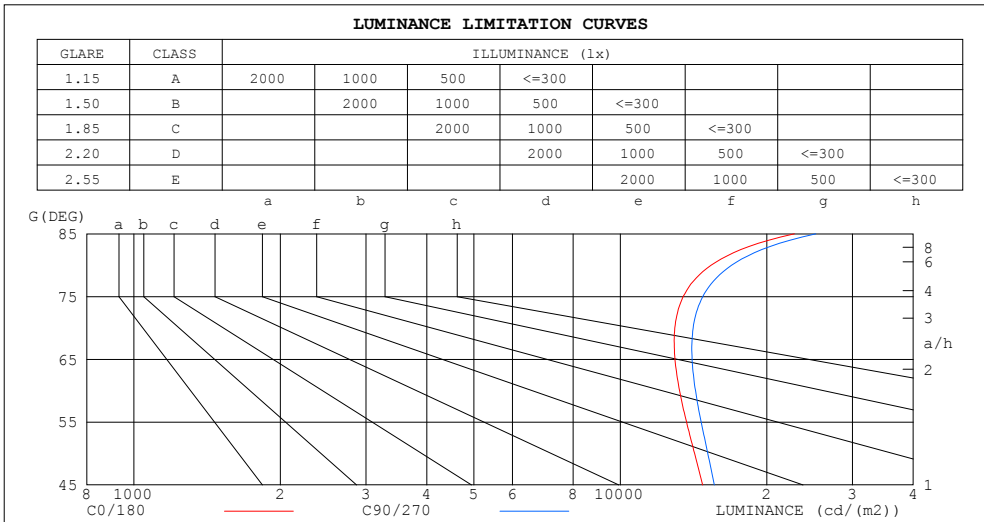
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	426.7	428.5	429.8	430.2	427.8	427.0	426.6	427.3	0- 5	10.26	10.26	0.79,0.79
10	419.9	422.8	424.8	425.6	422.4	420.0	418.8	419.8	5- 10	30.41	40.67	3.14,3.14
15	409.2	412.8	415.6	416.8	412.8	408.9	407.0	408.6	10- 15	49.44	90.11	6.95,6.95
20	394.5	398.8	402.4	404.1	399.4	394.1	391.6	393.3	15- 20	66.67	156.8	12.1,12.1
25	375.4	380.7	385.2	387.2	381.8	375.2	372.1	373.7	20- 25	81.44	238.2	18.4,18.4
30	352.5	358.5	364.1	366.3	360.2	352.5	348.7	350.1	25- 30	93.13	331.4	25.6,25.6
35	325.6	332.6	338.9	341.1	334.7	326.0	321.5	322.6	30- 35	101.2	432.6	33.4,33.4
40	295.7	303.4	310.2	312.3	305.6	296.3	291.2	292.2	35- 40	105.3	537.9	41.5,41.5
45	263.6	271.7	278.7	280.9	273.9	264.4	258.9	259.9	40- 45	105.5	643.4	49.6,49.6
50	230.7	238.7	245.7	247.7	241.0	231.4	225.8	226.7	45- 50	102.0	745.4	57.5,57.5
55	198.2	205.9	212.4	214.0	207.8	198.9	193.5	194.3	50- 55	95.39	840.8	64.9,64.9
60	167.2	174.4	180.3	181.4	175.6	167.5	162.6	163.3	55- 60	86.49	927.3	71.5,71.5
65	138.3	144.7	149.9	150.6	145.4	138.3	133.9	134.6	60- 65	76.09	1003	77.4,77.4
70	111.8	117.5	121.9	122.3	117.6	111.4	107.7	108.3	65- 70	64.89	1068	82.4,82.4
75	88.02	92.80	96.60	96.78	92.70	87.29	84.18	84.96	70- 75	53.51	1122	86.5,86.5
80	67.39	71.18	74.27	74.35	70.93	66.41	63.95	64.70	75- 80	42.54	1164	89.8,89.8
85	50.17	53.07	55.52	55.46	52.72	49.16	47.28	47.93	80- 85	32.61	1197	92.3,92.3
90	36.82	38.89	40.65	40.51	38.53	36.07	34.76	35.16	85- 90	24.20	1221	94.2,94.2
95	27.54	28.92	30.06	29.88	28.56	27.01	26.16	26.41	90- 95	17.83	1239	95.6,95.6
100	21.60	22.49	23.20	22.96	22.17	21.26	20.76	20.91	95-100	13.46	1252	96.6,96.6
105	17.67	18.33	18.79	18.59	18.02	17.37	17.02	17.13	100-105	10.60	1263	97.4,97.4
110	14.45	15.00	15.36	15.17	14.69	14.19	13.92	14.01	105-110	8.467	1271	98.1,98.1
115	11.74	12.19	12.47	12.30	11.90	11.51	11.30	11.37	110-115	6.683	1278	98.6,98.6
120	9.457	9.835	10.04	9.899	9.555	9.254	9.099	9.164	115-120	5.190	1283	99.99
125	7.543	7.845	8.006	7.879	7.588	7.354	7.243	7.310	120-125	3.954	1287	99.3,99.3
130	5.942	6.185	6.308	6.197	5.949	5.772	5.696	5.754	125-130	2.946	1290	99.5,99.5
135	4.609	4.803	4.899	4.791	4.571	4.442	4.396	4.440	130-135	2.137	1292	99.7,99.7
140	3.521	3.672	3.748	3.641	3.457	3.366	3.333	3.370	135-140	1.503	1294	99.8,99.8
145	2.635	2.752	2.805	2.708	2.553	2.487	2.465	2.503	140-145	1.020	1295	99.9,99.9
150	1.928	2.017	2.053	1.958	1.833	1.790	1.777	1.816	145-150	0.6616	1296	99.9,99.9
155	1.404	1.465	1.485	1.396	1.295	1.270	1.260	1.301	150-155	0.4100	1296	100,100
160	1.045	1.078	1.088	0.9995	0.9253	0.9095	0.8976	0.9433	155-160	0.2445	1296	100,100
165	0.8019	0.8137	0.8220	0.7325	0.6900	0.6750	0.6609	0.6994	160-165	0.1416	1296	100,100
170	0.5894	0.6019	0.6095	0.5141	0.4926	0.4822	0.4588	0.4967	165-170	0.0759	1296	100,100
175	0.2865	0.4019	0.2616	0.2786	0.1860	0.2144	0.2220	0.1927	170-175	0.0301	1296	100,100
180	0.0007	0.0006	0	0	0.0003	0.0007	0.0006	0.0008	175-180	0.0034	1296	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:0.1171A P:11.43W PF:0.8141 Freq:0Hz Lamp Flux:1296.49x1 lm		
NAME: BR40-12-850-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22789	25219
80	15363	16933
75	13463	14776
70	12944	14115
65	12954	14043
60	13235	14276
55	13681	14662
50	14211	15130
45	14761	15606

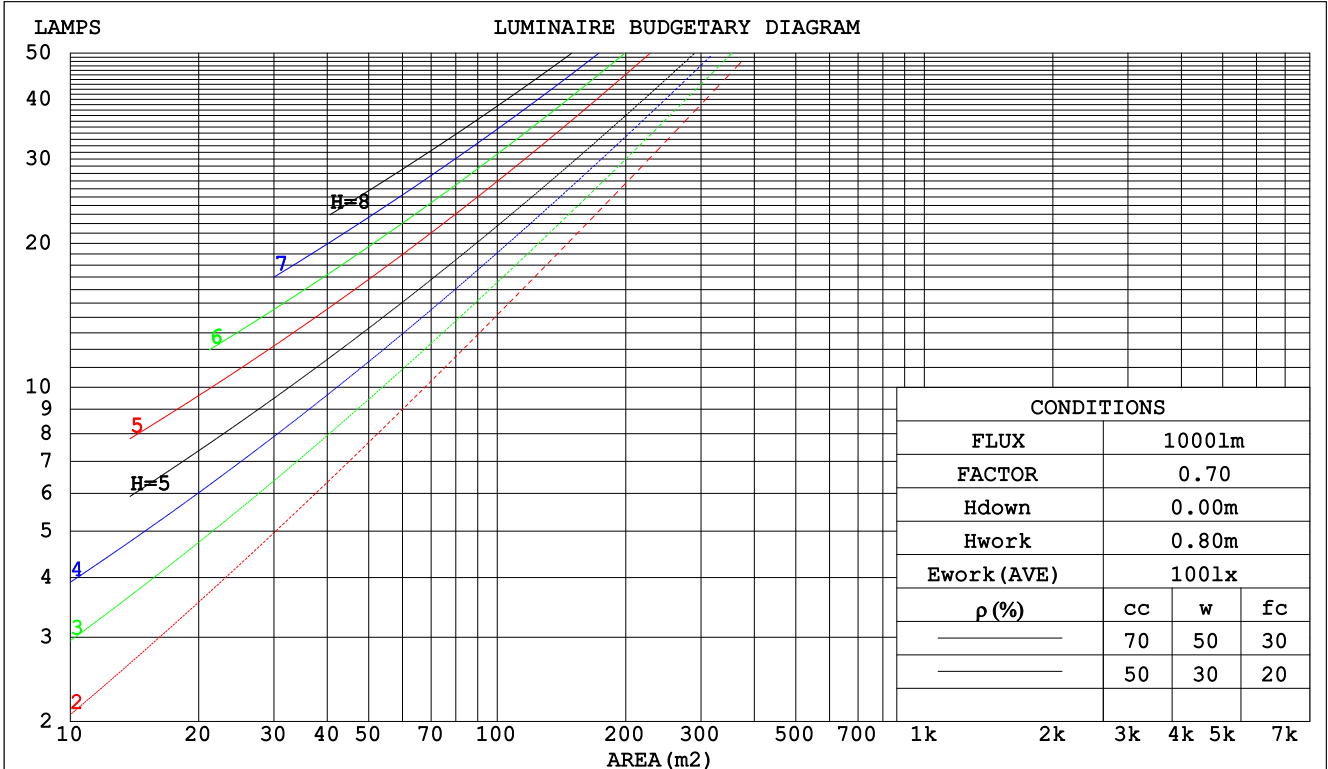
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 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.9V I:0.1171A P:11.43W PF:0.8141 Freq:0Hz Lamp Flux:1296.49x1 lm		
NAME: BR40-12-850-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	.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	.40
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:0.1171A P:11.43W PF:0.8141 Freq:0Hz Lamp Flux:1296.49x1 lm		
NAME: BR40-12-850-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	.209	.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	.147	.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	.152	.133	.118	.105	.076	.069	.061	.024	.022	.020	
2.0	.219	.177	.142	.187	.152	.122	.128	.105	.085	.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	.146	.103	.174	.127	.090	.120	.088	.063	.069	.052	.037	.022	.017	.012	
5.0	.195	.136	.093	.168	.118	.081	.115	.082	.057	.067	.048	.034	.022	.016	.011	
6.0	.188	.128	.085	.162	.111	.074	.111	.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	.115	.075	.150	.100	.065	.104	.070	.046	.060	.041	.028	.020	.014	.009	
9.0	.168	.110	.071	.145	.096	.062	.101	.067	.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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 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:0.1171A P:11.43W PF:0.8141 Freq:0Hz Lamp Flux:1296.49x1 lm										
NAME: BR40-12-850-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	21.4	22.9	21.8	23.2	23.5	21.7	23.2	22.1	23.5	23.8
3H	23.0	24.4	23.4	24.7	25.1	23.4	24.7	23.8	25.1	25.4
4H	23.8	25.1	24.2	25.4	25.8	24.2	25.5	24.6	25.8	26.2
6H	24.6	25.8	25.0	26.1	26.5	25.0	26.2	25.4	26.6	27.0
8H	25.0	26.1	25.4	26.5	26.9	25.4	26.6	25.8	27.0	27.4
12H	25.4	26.5	25.8	26.9	27.3	25.9	27.0	26.3	27.4	27.8
4H 2H	22.1	23.3	22.5	23.7	24.1	22.3	23.6	22.7	23.9	24.3
3H	23.9	25.0	24.3	25.4	25.8	24.2	25.3	24.6	25.7	26.1
4H	24.8	25.8	25.3	26.3	26.7	25.1	26.2	25.6	26.6	27.1
6H	25.8	26.7	26.2	27.1	27.6	26.1	27.1	26.6	27.5	28.0
8H	26.2	27.1	26.7	27.6	28.1	26.7	27.5	27.2	28.0	28.5
12H	26.8	27.6	27.3	28.1	28.6	27.2	28.0	27.7	28.5	29.0
8H 4H	25.2	26.1	25.7	26.5	27.0	25.5	26.3	26.0	26.8	27.3
6H	26.4	27.1	26.9	27.6	28.2	26.7	27.4	27.3	27.9	28.5
8H	27.0	27.7	27.6	28.2	28.8	27.4	28.0	28.0	28.6	29.1
12H	27.8	28.3	28.4	28.9	29.5	28.2	28.7	28.8	29.3	29.9
12H 4H	25.3	26.1	25.8	26.6	27.1	25.5	26.3	26.1	26.8	27.4
6H	26.6	27.2	27.1	27.7	28.3	26.9	27.5	27.4	28.0	28.6
8H	27.3	27.9	27.9	28.4	29.0	27.6	28.2	28.2	28.7	29.3
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, 1296 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:0.1171A P:11.43W PF:0.8141 Freq:0Hz Lamp Flux:1296.49x1 lm		
NAME: BR40-12-850-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

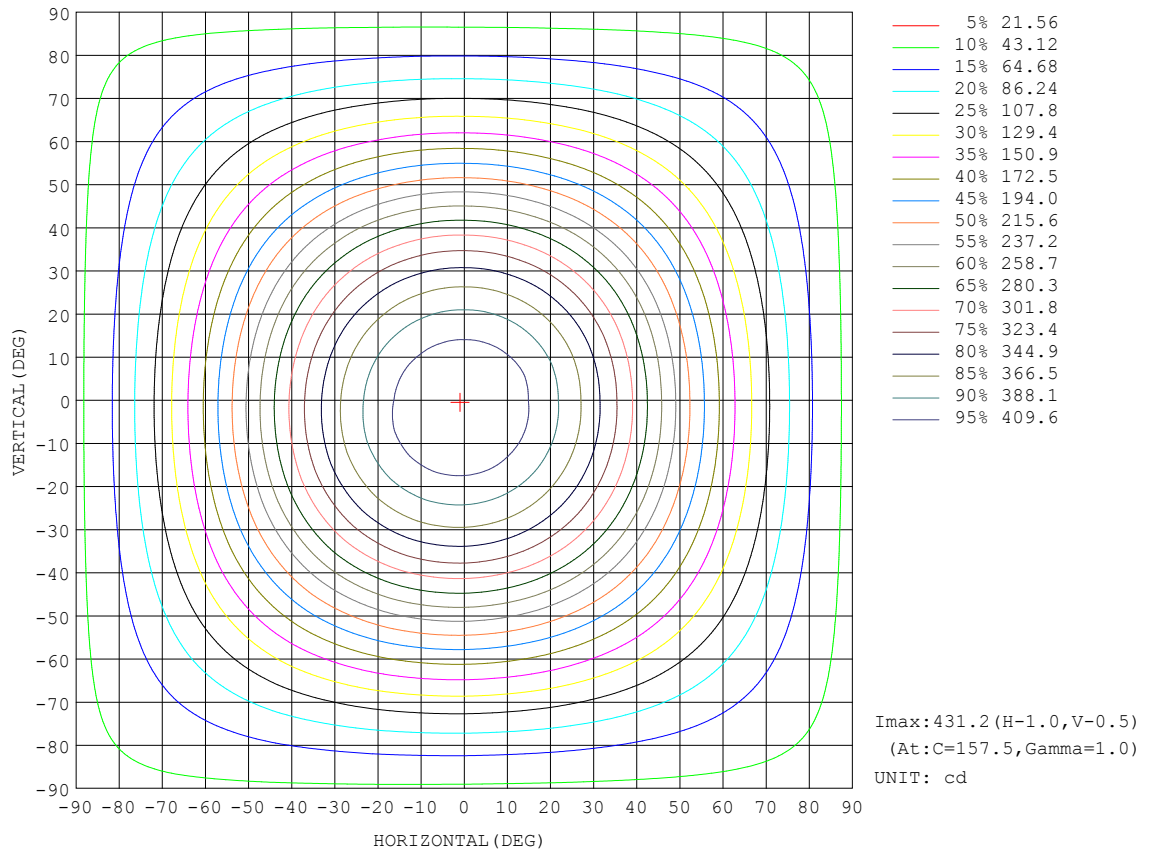
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	53	43	37	30
0.80	65	53	46	64	53	46	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	80	71	65	57
2.00	92	82	75	90	81	75	85	78	73	64
2.50	96	87	81	93	86	79	89	82	77	68
3.00	99	91	85	97	90	84	92	86	81	71
4.00	103	97	91	100	95	90	95	91	86	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:119.9V I:0.1171A P:11.43W PF:0.8141 Freq:0Hz Lamp Flux:1296.49x1 lm		
NAME: BR40-12-850-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

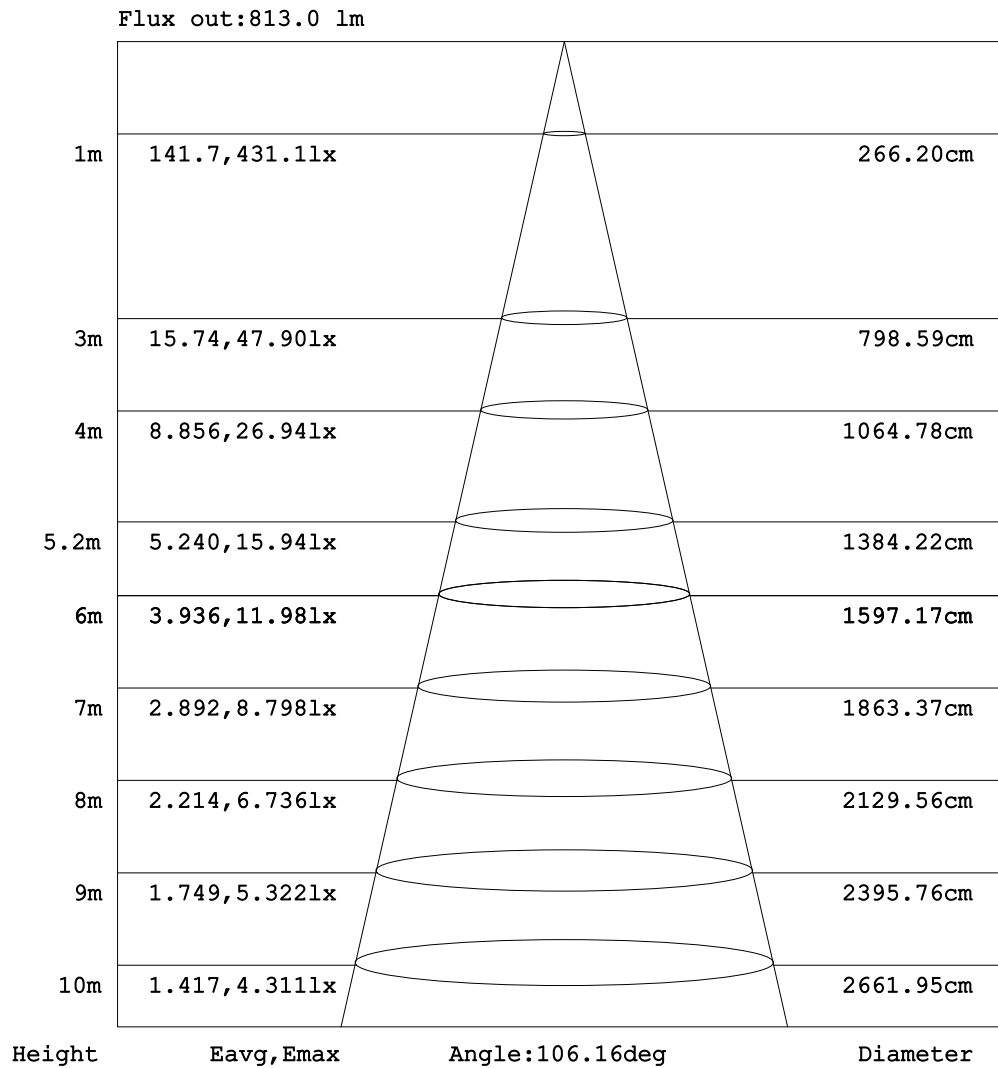


C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: YY  
 Test Date: 2019-08-26

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:

AAI Figure

Test:U:119.9V I:0.1171A P:11.43W PF:0.8141 Freq:0Hz Lamp Flux:1296.49x1 lm		
NAME: BR40-12-850-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /



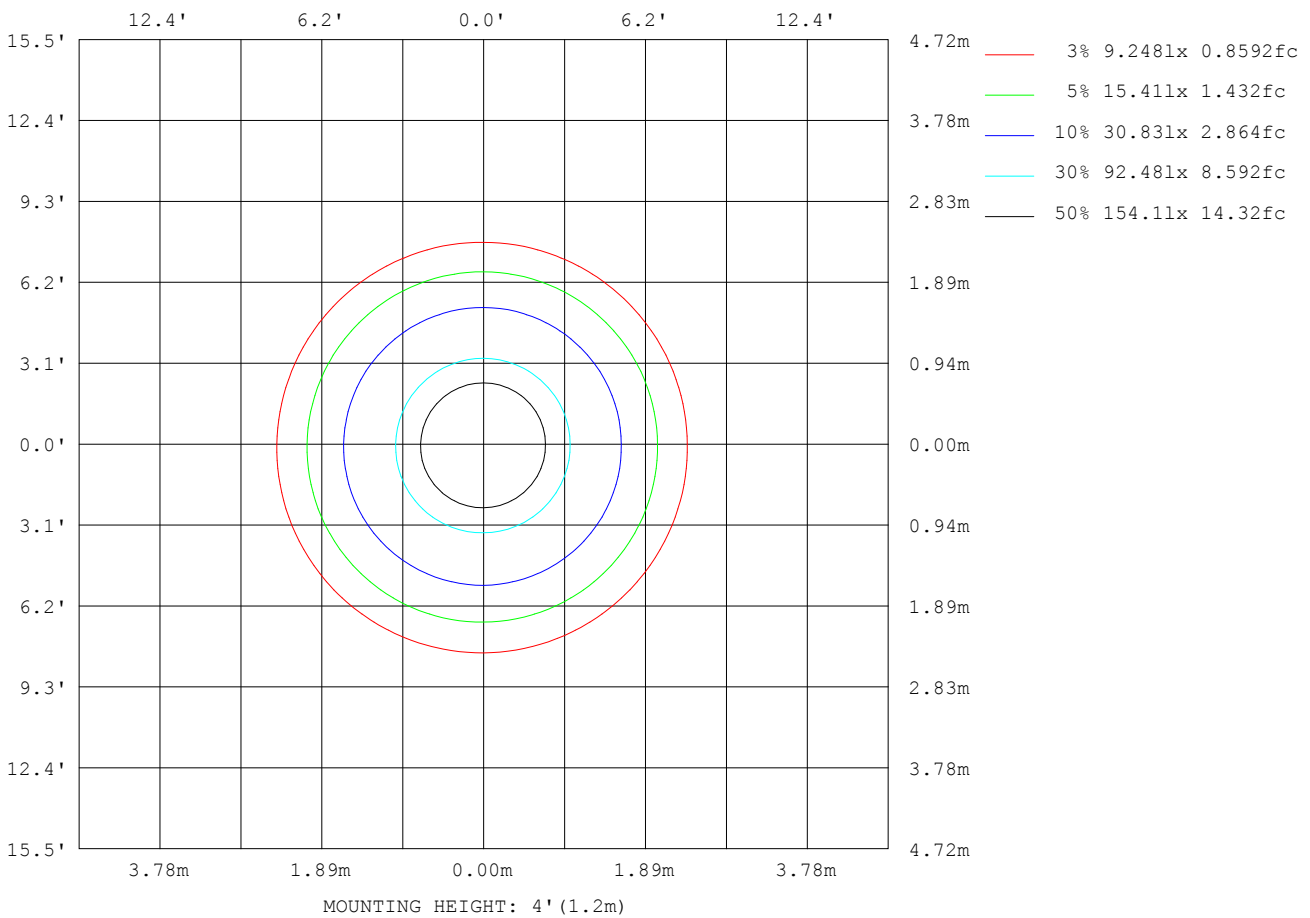
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1171A P:11.43W PF:0.8141 Freq:0Hz Lamp Flux:1296.49x1 lm		
NAME: BR40-12-850-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:0.1171A P:11.43W PF:0.8141 Freq:0Hz Lamp Flux:1296.49x1 lm		
NAME: BR40-12-850-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

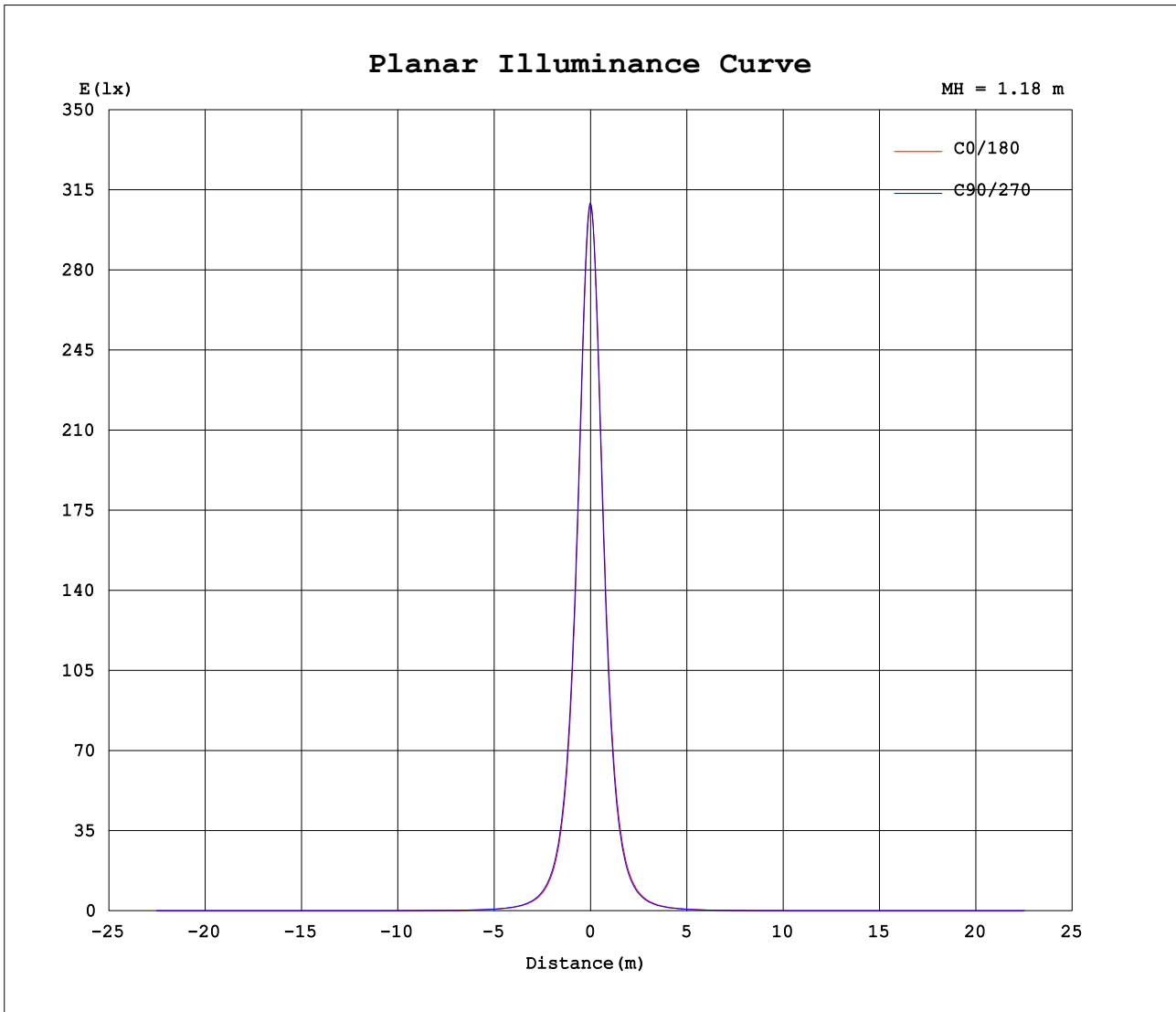
AvgL	cd/m2
L_0~180 (65) av	13288
L_0~180 (75) av	13821
L_0~180 (85) av	23368
L_90~270 (65) av	13292
L_90~270 (75) av	13826
L_90~270 (85) av	23347
L_45 (65) av	13308
L_45 (75) av	13836
L_45 (85) av	23349

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:0.1171A P:11.43W PF:0.8141 Freq:0Hz Lamp Flux:1296.49x1 lm		
NAME: BR40-12-850-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	429	430	430	430	430	431	431	431	429	430	430	430	430	431	431	431			
5	427	428	428	429	430	430	430	430	428	428	427	427	427	427	427	428			
10	420	422	423	424	425	425	426	425	422	421	420	419	419	419	420	421			
15	409	411	413	414	416	417	417	416	413	411	409	408	407	408	409	410			
20	394	397	399	401	402	404	404	403	399	397	394	392	392	392	393	395			
25	375	378	381	383	385	387	387	386	382	379	375	373	372	373	374	375			
30	352	356	359	362	364	366	366	365	360	356	353	350	349	349	350	352			
35	326	329	333	336	339	341	341	339	335	330	326	323	321	321	323	325			
40	296	299	303	307	310	312	312	310	306	301	296	293	291	291	292	294			
45	264	268	272	276	279	281	281	279	274	269	264	261	259	259	260	262			
50	231	235	239	243	246	248	248	245	241	236	231	228	226	226	227	229			
55	198	202	206	210	212	214	214	212	208	203	199	196	194	193	194	197			
60	167	171	174	178	180	182	181	179	176	172	168	164	163	162	163	165			
65	138	142	145	148	150	151	151	149	145	142	138	136	134	134	135	136			
70	112	115	117	120	122	123	122	121	118	114	111	109	108	107	108	110			
75	88.0	90.4	92.8	95.0	96.6	97.2	96.8	95.2	92.7	89.9	87.3	85.3	84.2	84.1	85.0	86.6			
80	67.4	69.3	71.2	73.0	74.3	74.8	74.3	73.0	70.9	68.6	66.4	64.8	63.9	64.0	64.7	66.1			
85	50.2	51.6	53.1	54.5	55.5	55.9	55.5	54.4	52.7	50.9	49.2	47.9	47.3	47.3	47.9	49.1			
90	36.8	37.9	38.9	39.9	40.7	40.8	40.5	39.7	38.5	37.3	36.1	35.2	34.8	34.7	35.2	36.0			
95	27.5	28.2	28.9	29.6	30.1	30.2	29.9	29.3	28.6	27.8	27.0	26.5	26.2	26.1	26.4	27.0			
100	21.6	22.1	22.5	23.0	23.2	23.2	23.0	22.6	22.2	21.7	21.3	20.9	20.8	20.7	20.9	21.3			
105	17.7	18.0	18.3	18.6	18.8	18.8	18.6	18.4	18.0	17.7	17.4	17.1	17.0	17.0	17.1	17.4			
110	14.4	14.7	15.0	15.2	15.4	15.3	15.2	15.0	14.7	14.5	14.2	14.0	13.9	13.9	14.0	14.2			
115	11.7	12.0	12.2	12.4	12.5	12.4	12.3	12.1	11.9	11.7	11.5	11.4	11.3	11.3	11.4	11.6			
120	9.46	9.65	9.83	9.98	10.0	10.0	9.90	9.75	9.55	9.41	9.25	9.15	9.10	9.10	9.16	9.32			
125	7.54	7.70	7.85	7.96	8.01	7.98	7.88	7.75	7.59	7.47	7.35	7.28	7.24	7.25	7.31	7.44			
130	5.94	6.07	6.19	6.28	6.31	6.29	6.20	6.09	5.95	5.86	5.77	5.72	5.70	5.70	5.75	5.86			
135	4.61	4.71	4.80	4.88	4.90	4.87	4.79	4.69	4.57	4.50	4.44	4.41	4.40	4.40	4.44	4.53			
140	3.52	3.59	3.67	3.73	3.75	3.72	3.64	3.56	3.46	3.41	3.37	3.34	3.33	3.33	3.37	3.45			
145	2.64	2.69	2.75	2.80	2.81	2.77	2.71	2.63	2.55	2.51	2.49	2.47	2.46	2.47	2.50	2.57			
150	1.93	1.96	2.02	2.04	2.05	2.02	1.96	1.89	1.83	1.81	1.79	1.77	1.78	1.79	1.82	1.87			
155	1.40	1.42	1.46	1.48	1.49	1.45	1.40	1.34	1.30	1.29	1.27	1.26	1.26	1.29	1.30	1.35			
160	1.05	1.05	1.08	1.08	1.09	1.05	1.00	0.95	0.93	0.92	0.91	0.91	0.90	0.94	0.94	0.98			
165	0.80	0.79	0.81	0.82	0.82	0.78	0.73	0.69	0.69	0.69	0.67	0.67	0.66	0.71	0.70	0.73			
170	0.59	0.59	0.60	0.61	0.61	0.56	0.51	0.48	0.49	0.50	0.48	0.47	0.46	0.51	0.50	0.53			
175	0.29	0.34	0.40	0.36	0.26	0.25	0.28	0.22	0.19	0.19	0.21	0.27	0.22	0.17	0.19	0.29			
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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