

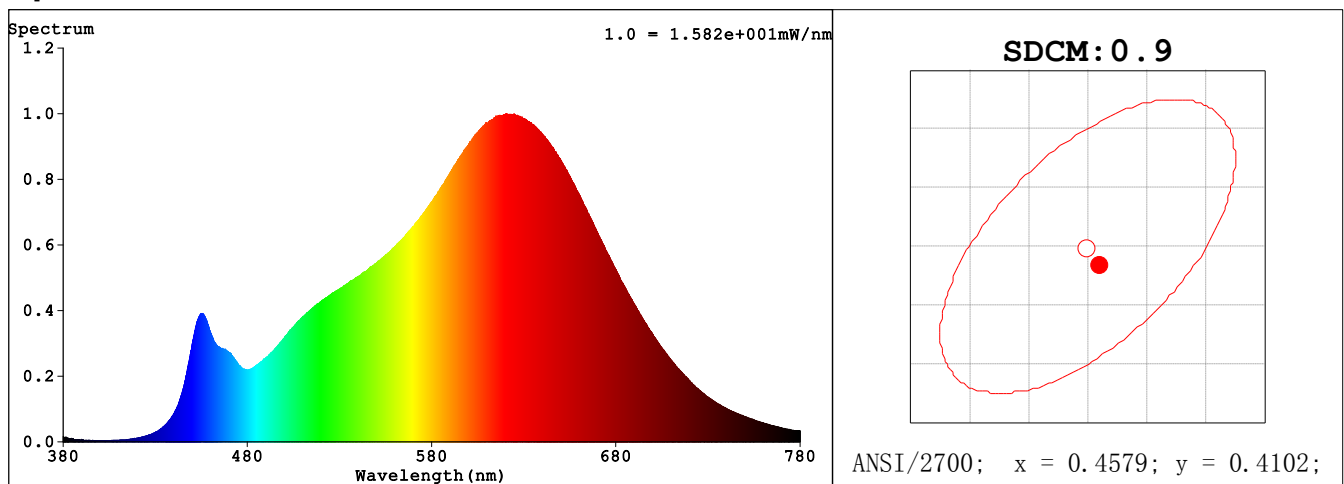
Spectrum Test Report

Sample	:	Date	:	2019-11-27
Specification	:	Sam. Status	:	
Sample No.	:	Standard	:	
Manufacturer	:	Instrument	:	HaasSuite(EVERFINE)
Assessor	:	Test by	:	DAMIN
Remark	:			
Device SN	:			

Test Condition

Temperature	:	24.9Deg	RH	:	65.0%
WL Range	:	380nm-780nm	IP	:	53113 (81%)
Test Mode	:	Fast Test	T	:	247 ms
Sensitivity	:	High			

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4586$ $y = 0.4091$ / $u' = 0.2623$ $v' = 0.5266$ ($duv = -4.32e-04$)
 CCT= 2707K Prcp WL: $L_d = 584.3nm$ Purity=60.5%
 Peak WL: $L_p = 621nm$ FWHM: =143.1nm Ratio:R=26.6% G=70.6% B=2.7%
 Render Index: $R_a = 93.3$

EEl: 0.17034 A

R1 =95 R2 =99 R3 =97 R4 =93 R5 =95 R6 =97 R7 =90
 R8 =81 R9 =60 R10=97 R11=96 R12=85 R13=96 R14=99 R15=89
 LEVEL:OUT WHITE:ANSI_2700K

Photometric & Radiometric Parameters

Flux = 734.70 lm Eff. : 72.06 lm/W $F_e = 2.6032 W$ Scotopic:969.89 S/P:1.3201

Electrical parameters

V = 120.09 V I = 0.08550 A P = 10.20 W PF = 0.9952 F=59.98 Hz

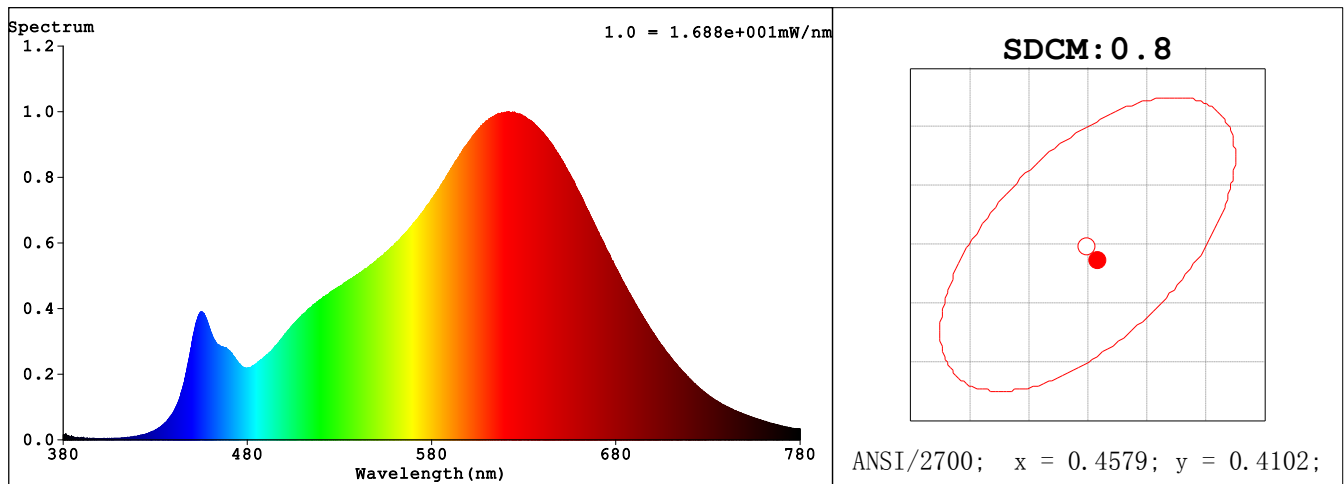
Spectrum Test Report

Sample :	Date : 2019-11-27
Specification : SM5.5R10927UNVTW	Sam. Status :
Sample No. : 277 1	Standard :
Manufacturer : RAB LIGHTING INC.	Instrument : HaasSuite(EVERFINE)
Assessor : damin	
Remark : ---	Test by : DAMIN
Device SN : 9#	

Test Condition

Temprature : 24.9Deg	RH : 65.0%
WL Range : 380nm-780nm	IP : 56598 (86%)
Test Mode : Fast Test	T : 247 ms
Sensitivity : High	

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4585$ $y = 0.4093$ / $u' = 0.2622$ $v' = 0.5267$ ($duv = -3.61e-04$)
 CCT= 2709K Prcp WL: $L_d = 584.3nm$ Purity=60.5%
 Peak WL: $L_p = 622nm$ FWHM: =143.6nm Ratio:R=26.6% G=70.7% B=2.7%
 Render Index: $R_a = 93.3$

EEl: 0.17493 A

R1 =95 R2 =99 R3 =97 R4 =93 R5 =95 R6 =97 R7 =90
 R8 =81 R9 =60 R10=97 R11=96 R12=85 R13=96 R14=99 R15=89
 LEVEL:OUT WHITE:ANSI_2700K

Photometric & Radiometric Parameters

Flux = 784.78 lm Eff. : 71.09 lm/W Fe = 2.7796 W Scotpic:1036.1 S/P:1.3202

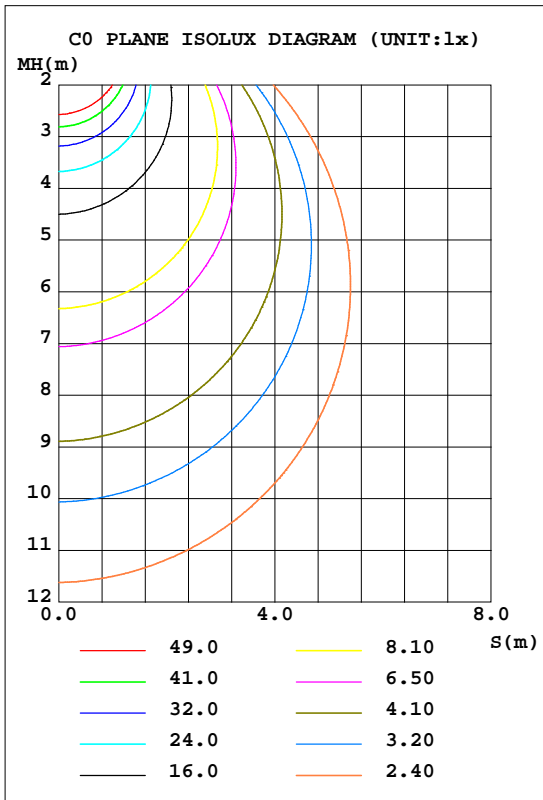
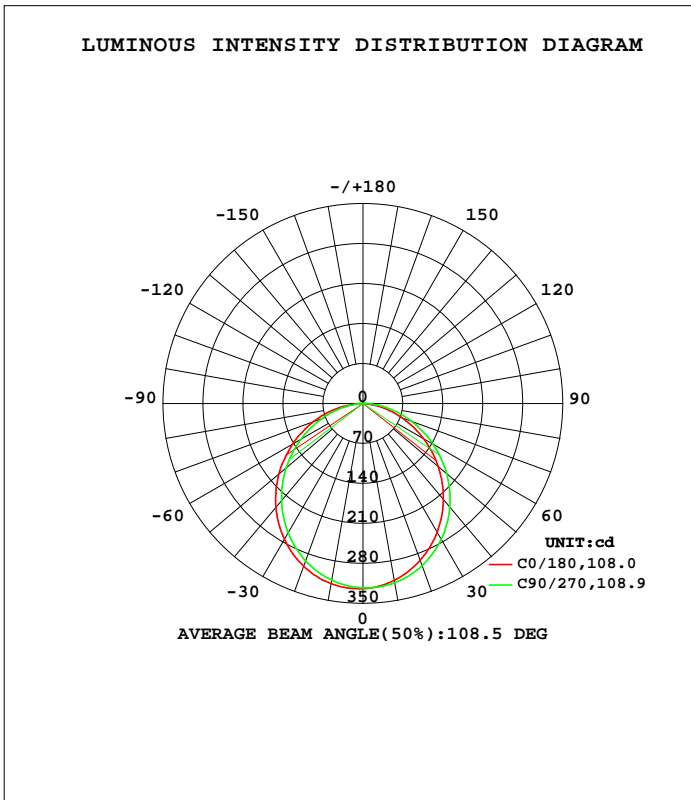
Electrical parameters

V = 277.30 V I = 0.04354 A P = 11.04 W PF = 0.9143 F=59.98 Hz

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME:	TYPE:SM5.5R10927UNVTW	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC.	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax(cd)	324.5	S/MH(C0/180)	1.26
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	885.49	h UP, DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	885.489	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,50.3
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-27

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:3.200m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

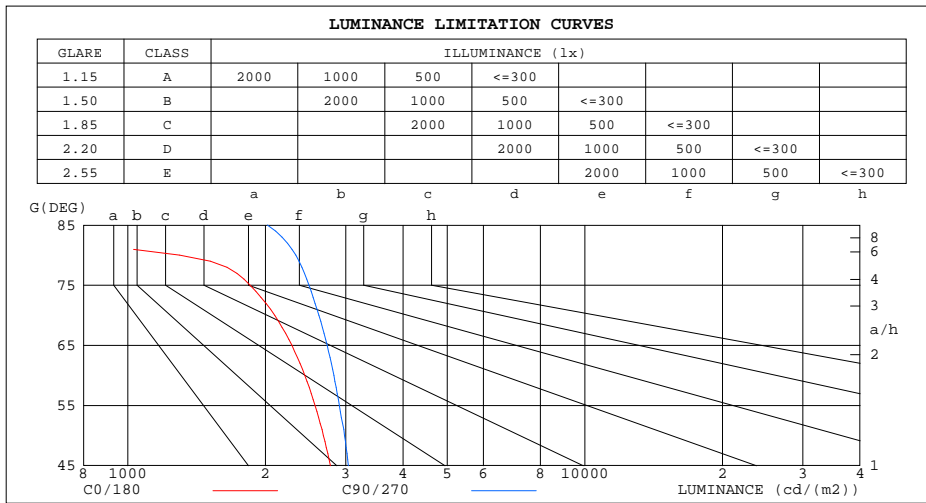
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	314.5	318.8	320.4	314.1					0- 10	30.57	30.57	3.45,3.45
20	292.5	302.3	303.5	293.3					10- 20	87.14	117.7	13.3,13.3
30	260.0	274.3	275.1	262.0					20- 30	130.9	248.6	28.1,28.1
40	219.1	236.7	237.3	222.0					30- 40	155.9	404.5	45.7,45.7
50	172.3	191.6	192.3	175.7					40- 50	159.3	563.8	63.7,63.7
60	122.0	141.2	142.3	125.8					50- 60	141.3	705.1	79.6,79.6
70	71.65	89.61	91.28	75.41					60- 70	106.2	811.3	91.6,91.6
80	22.54	40.49	41.37	27.91					70- 80	60.75	872.0	98.5,98.5
90	0.3008	0.2873	1.127	0.0779					80- 90	13.45	885.5	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-27

g Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:3.200m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME:	TYPE:SM5.5R10927UNVTW	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC.	SUR.:21cm*16cm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	532	2022
80	1298	2332
75	1853	2491
70	2095	2620
65	2286	2731
60	2440	2824
55	2570	2902
50	2680	2980
45	2776	3039

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-27

G Range: 0 - 90DEG
 G Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:3.200m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME:	TYPE:SM5.5R10927UNVTW	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC.	SUR.:21cm*16cm	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.304	.173	.055	.297	.169	.054	.283	.163	.052	.271	.156	.050	.260	.151	.049	
2.0	.288	.158	.048	.281	.155	.048	.270	.150	.047	.259	.145	.045	.249	.141	.044	
3.0	.267	.142	.043	.261	.140	.042	.251	.136	.041	.241	.132	.041	.233	.129	.040	
4.0	.247	.128	.038	.242	.127	.037	.233	.123	.037	.224	.120	.036	.216	.118	.036	
5.0	.228	.116	.034	.224	.115	.033	.216	.112	.033	.208	.110	.033	.201	.108	.032	
6.0	.212	.106	.030	.208	.105	.030	.201	.103	.030	.194	.101	.030	.188	.099	.029	
7.0	.197	.098	.028	.194	.097	.028	.188	.095	.027	.181	.093	.027	.176	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.156	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.156	.076	.021	.151	.075	.021	.147	.074	.021	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.099	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.075	.140	.099	.065	.096	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.156	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-27

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:3.200m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

NAME:		TYPE:SM5.5R10927UNVTW					WEIGHT:				
SPEC.:		DIM.:					SERIAL No.:				
MFR.: RAB LIGHTING INC.		SUR.:21cm*16cm					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	16.5	18.0	16.7	18.2	18.4	17.0	18.5	17.2	18.7	18.9
	3H	17.8	19.2	18.1	19.4	19.7	18.5	19.9	18.8	20.2	20.4
	4H	18.3	19.6	18.6	19.9	20.1	19.2	20.5	19.5	20.8	21.0
	6H	18.6	19.8	18.9	20.1	20.4	19.7	20.9	20.0	21.2	21.5
	8H	18.6	19.8	18.9	20.1	20.4	19.8	21.0	20.2	21.3	21.6
	12H	18.6	19.7	18.9	20.0	20.3	19.9	21.1	20.3	21.4	21.7
4H	2H	17.1	18.4	17.4	18.7	18.9	17.5	18.8	17.8	19.1	19.3
	3H	18.6	19.8	19.0	20.1	20.4	19.3	20.4	19.6	20.7	21.0
	4H	19.3	20.3	19.6	20.6	21.0	20.0	21.1	20.4	21.4	21.7
	6H	19.6	20.6	20.0	20.9	21.3	20.6	21.6	21.0	21.9	22.3
	8H	19.7	20.5	20.1	20.9	21.3	20.9	21.7	21.3	22.1	22.5
	12H	19.7	20.5	20.1	20.9	21.3	21.0	21.8	21.4	22.2	22.6
8H	4H	19.6	20.4	20.0	20.8	21.2	20.2	21.1	20.7	21.5	21.9
	6H	20.1	20.8	20.5	21.2	21.6	21.0	21.7	21.4	22.1	22.6
	8H	20.1	20.8	20.6	21.2	21.7	21.3	21.9	21.7	22.4	22.8
	12H	20.2	20.7	20.6	21.2	21.6	21.5	22.1	22.0	22.5	23.0
12H	4H	19.6	20.4	20.0	20.8	21.2	20.2	21.0	20.7	21.4	21.8
	6H	20.1	20.8	20.6	21.2	21.6	21.0	21.7	21.5	22.1	22.5
	8H	20.2	20.8	20.7	21.2	21.7	21.3	21.9	21.8	22.3	22.8
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H		+ 0.2 / - 0.4					+ 0.1 / - 0.3				
2.0H		+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 885.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)

C Range: 0 - 360DEG
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 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-27

g Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:3.200m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

NAME:	TYPE:SM5.5R10927UNVTW	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC.	SUR.:21cm*16cm	Shielding Angle:

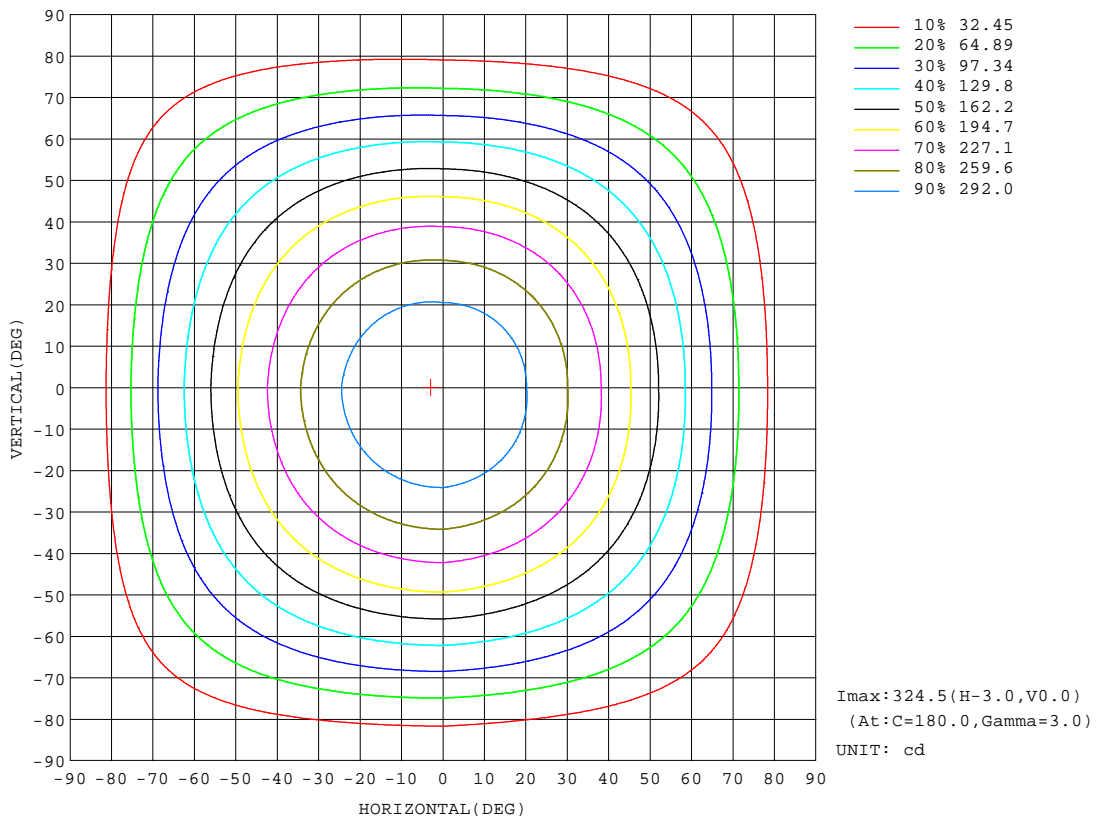
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	58	47	40	57	46	40	56	46	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	77	66	58	75	65	58	73	66	58	50
1.25	84	73	66	82	73	66	80	71	65	58
1.50	89	79	72	87	78	71	84	76	70	63
2.00	95	87	81	94	86	80	90	84	78	71
2.50	99	92	86	97	90	85	93	88	83	75
3.00	103	96	90	100	94	89	96	91	87	79
4.00	107	101	96	104	99	95	100	96	92	84
5.00	109	104	100	106	102	99	102	99	96	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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 Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:3.200m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME:	TYPE:SM5.5R10927UNVTW	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC.	SUR.:21cm*16cm	Shielding Angle:

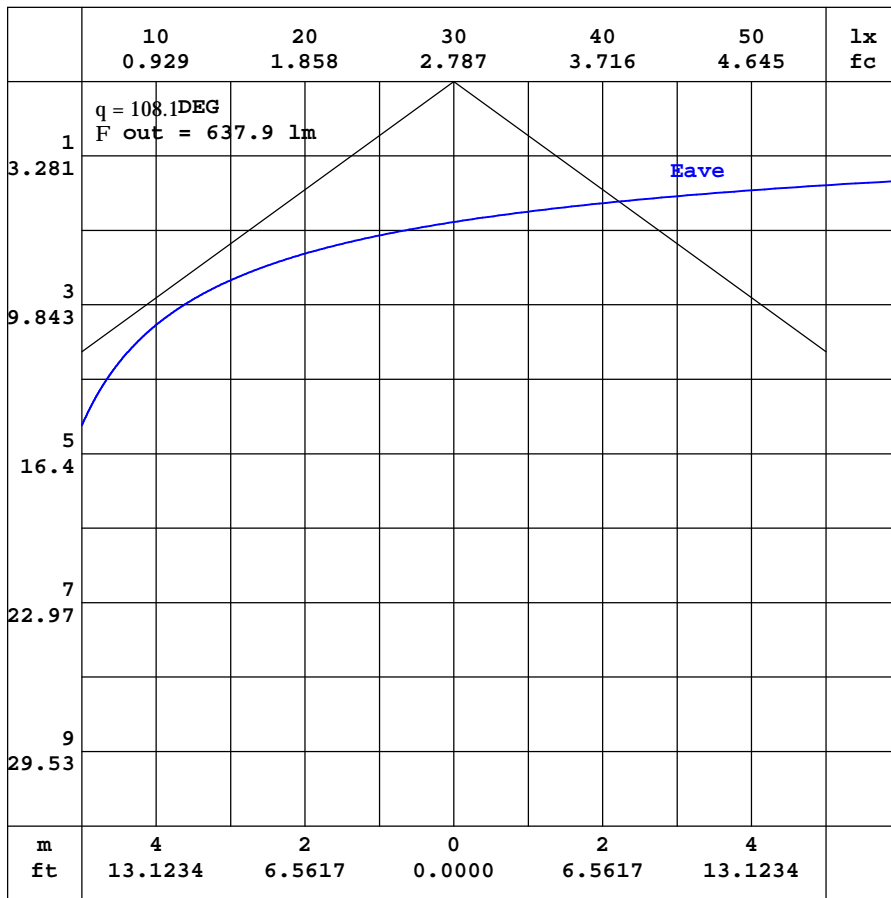


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-27

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:3.200m [K=1.0000]
 Remarks:

AAI CURVES

NAME:	TYPE:SM5.5R10927UNVTW	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC.	SUR.:21cm*16cm	Shielding Angle:

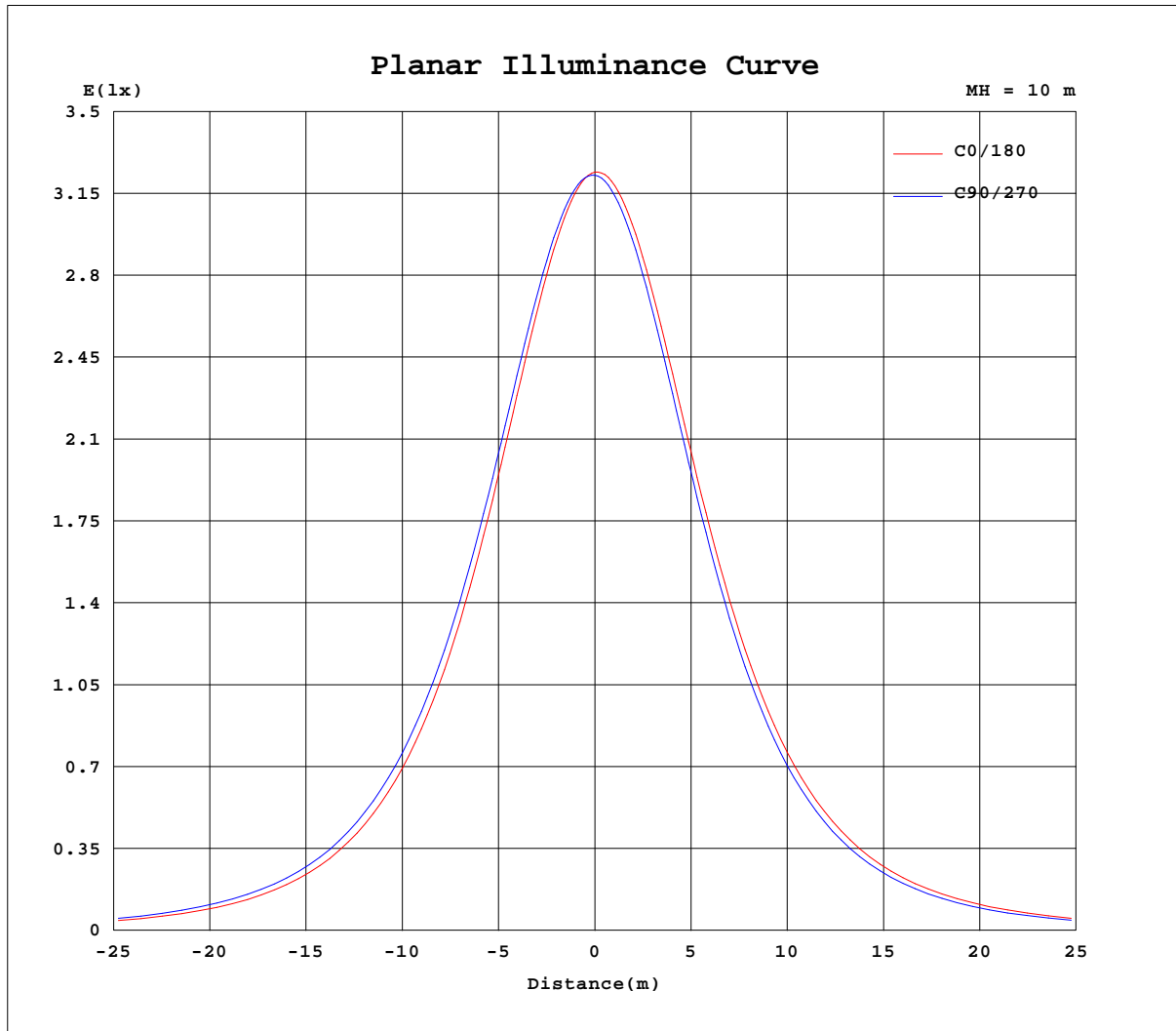


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-11-27

Range: 0 - 90DEG
 Interval: 1.0DEG
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 Test Distance:3.200m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2019-11-27

Page Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 3.200m [K=1.0000]
 Remarks:

