

Sample : PAR30S-11-927-40D-DIM
Specification :
Sample No. :
Manufacturer : RAB Lighting Inc.
Assessor : cuiquan
Remark :
Device SN :

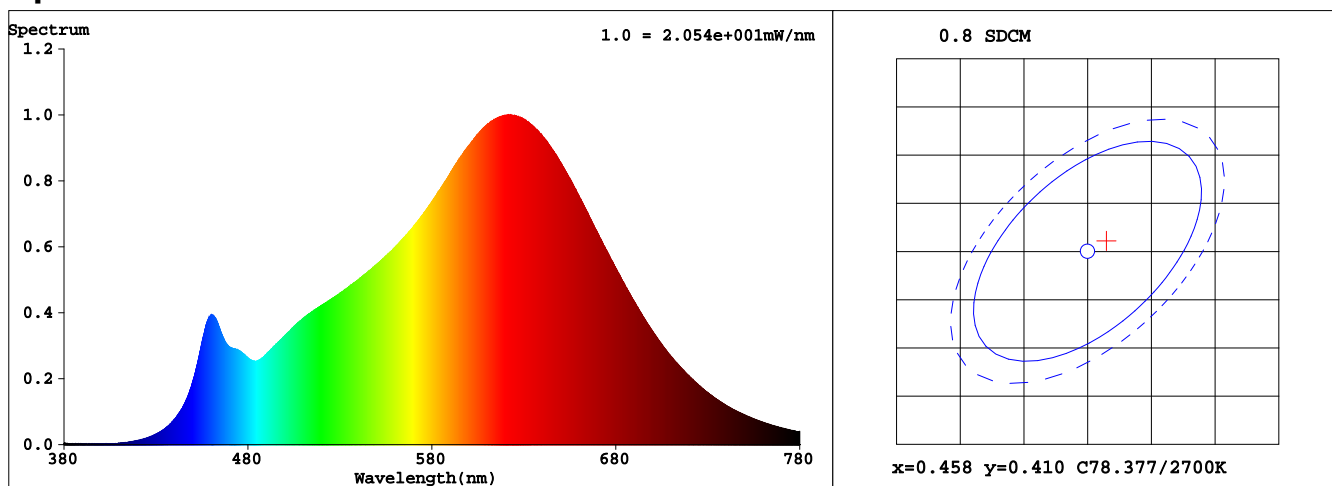
Date : 2020-04-18 19:43:40
Sam. Status :
Standard : LM-79-80
Instrument : HaasSuite(EVERFINE)
Test by :

Test Condition

Temperature : 26Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 30.1%
IP : 52609 (80%)
T : 184 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4591$ $y = 0.4109$ / $u' = 0.2619$ $v' = 0.5274$ ($duv=1.75e-04$)
CCT= 2713K Prcp WL: Ld=584.1nm Purity=61.2%
Peak WL: Lp=623nm FWHM: =143.2nm Ratio:R=26.5% G=70.6% B=2.9%
Render Index: Ra = 92.8 TM30:Rf=90 Rg=96

EEL: 0.14230 A+

R1 =95 R2 =100 R3 =96 R4 =92 R5 =95 R6 =96 R7 =89
R8 =80 R9 =60 R10=99 R11=94 R12=85 R13=96 R14=98 R15=89
LEVEL:OUT WHITE:ANSI_2700K

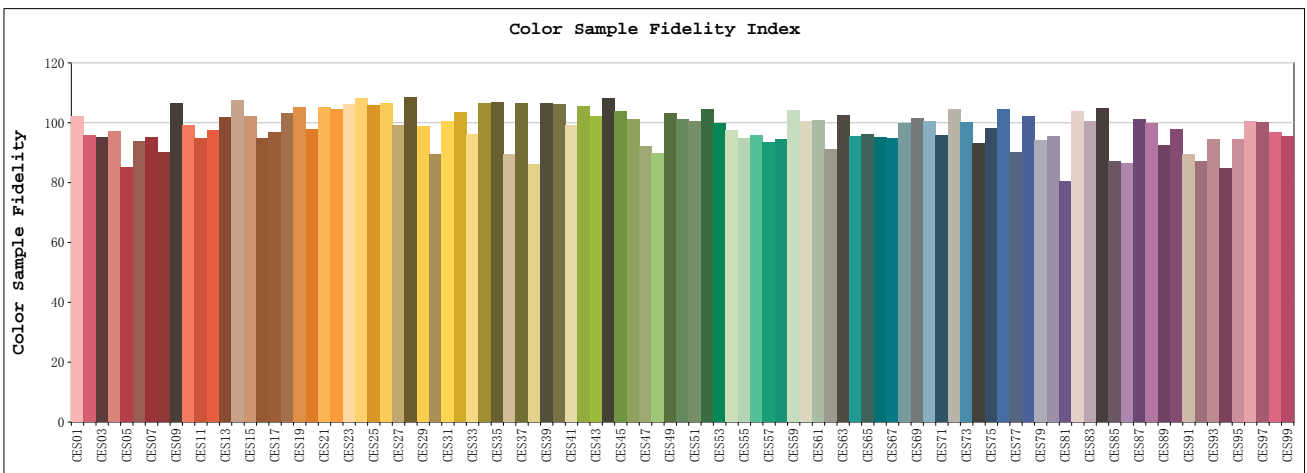
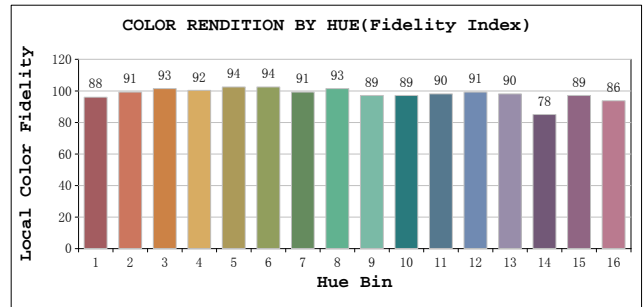
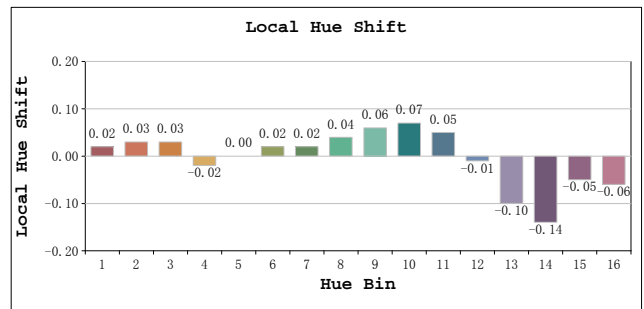
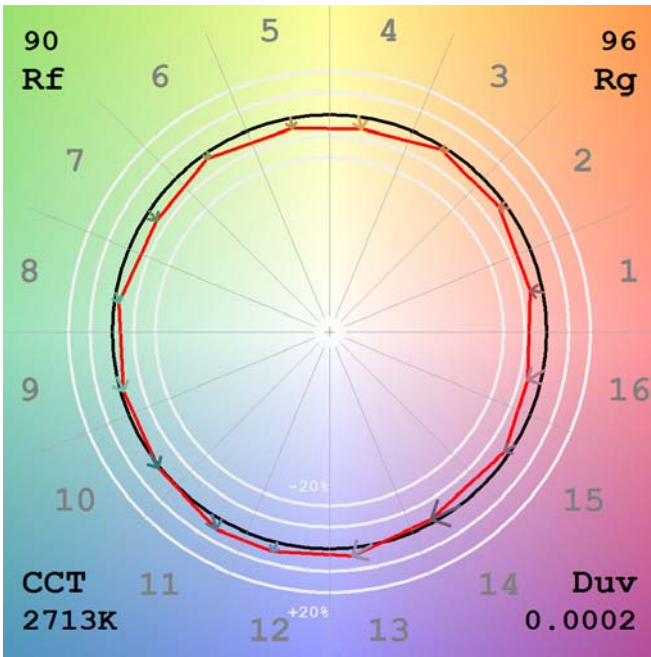
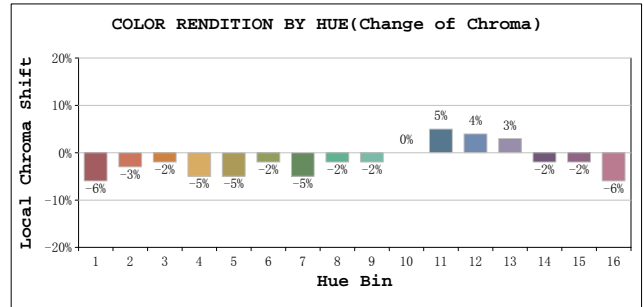
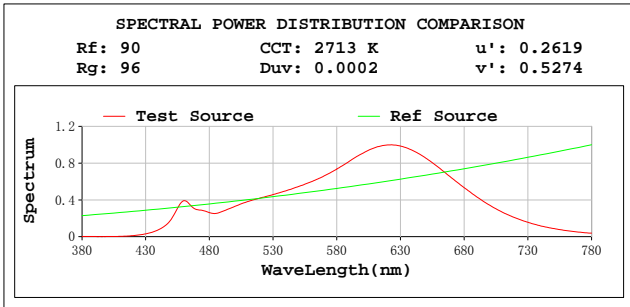
Photometric & Radiometric Parameters

Flux = 938.49 lm Eff. : 90.41 lm/W Fe = 3.3528 W
Flux of emitted photons($\mu\text{mol/s}$):16.808 Fluo. and blue light ratio:12.01 Fluorescent eff.:287.0

Electrical parameters

V = 119.98 V I = 0.08990 A P = 10.38 W PF = 0.9623

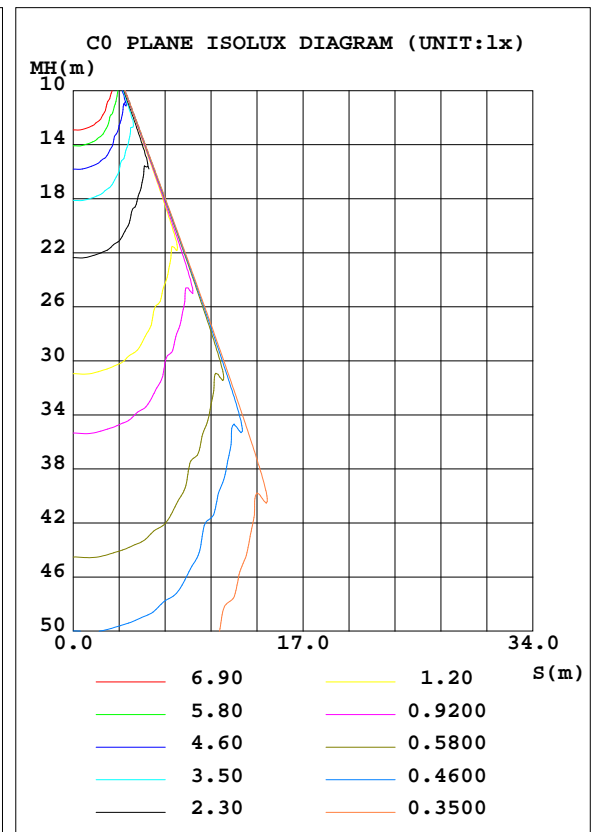
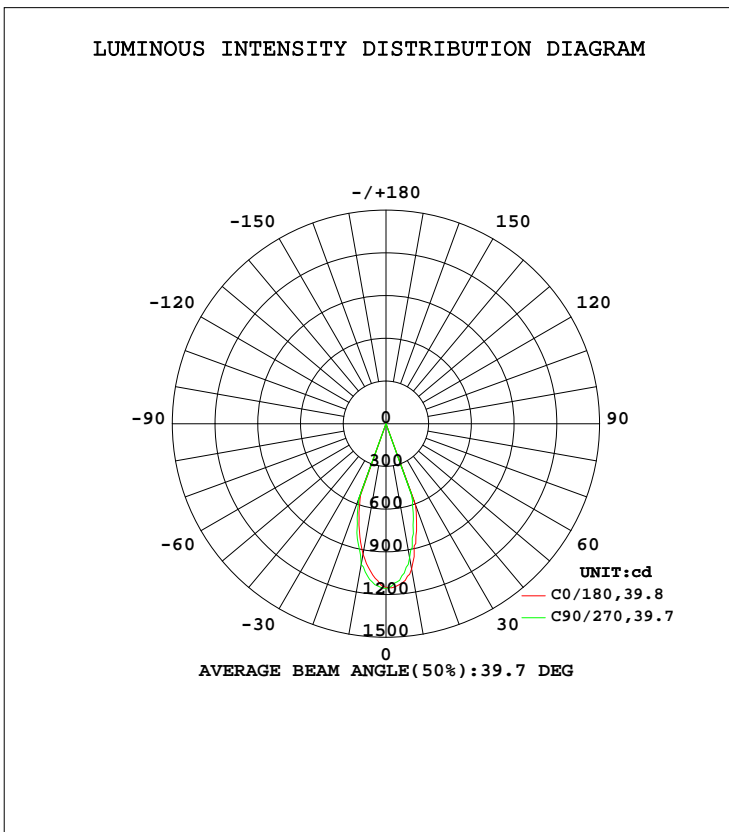
TM30



LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: PAR30S-11-927-40D-DIM	TYPE: /	WEIGHT: /
SPEC.: /	DIM.: /	SERIAL No.: /
MFR.: RAB Lighting Inc	SUR.: /	Shielding Angle: /

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	P30	Imax(cd)	1155	S/MH(C0/180)	0.53
NOMINAL POWER(W)	11	LOR(%)	100.0	S/MH(C90/270)	0.53
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	323.17	η UP, DN(C0-180)	0.0, 50.8
NOMINAL FLUX(lm)	323.169	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: 2.0deg/s
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 April 2020

γ Range: 0 - 20DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 2.500m [K=1.0030]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

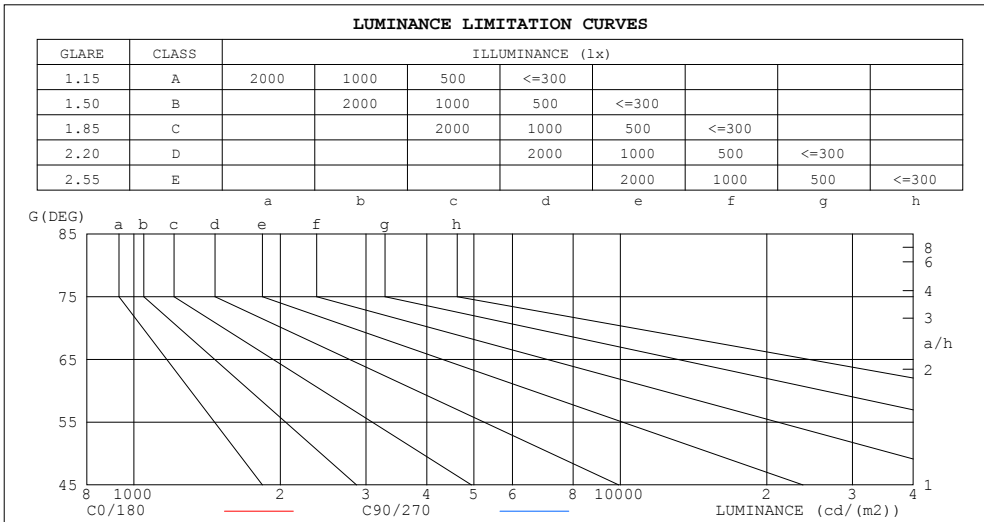
γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	1036	957.5	931.0	1004				0- 10	101.4	101.4	31.4, 31.4
20	607.7	522.0	519.8	557.9				10- 20	211.1	312.6	96.7, 96.7
30	0	0	0	0				20- 30	10.60	323.2	100, 100
40	0	0	0	0				30- 40	0	323.2	100, 100
50	0	0	0	0				40- 50	0	323.2	100, 100
60	0	0	0	0				50- 60	0	323.2	100, 100
70	0	0	0	0				60- 70	0	323.2	100, 100
80	0	0	0	0				70- 80	0	323.2	100, 100
90	0	0	0	0				80- 90	0	323.2	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		

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LUMINANCE LIMITATION CURVES

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SPEC.: /	DIM.: /	SERIAL No.: /
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LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	0
65	0	0
60	0	0
55	0	0
50	0	0
45	0	0

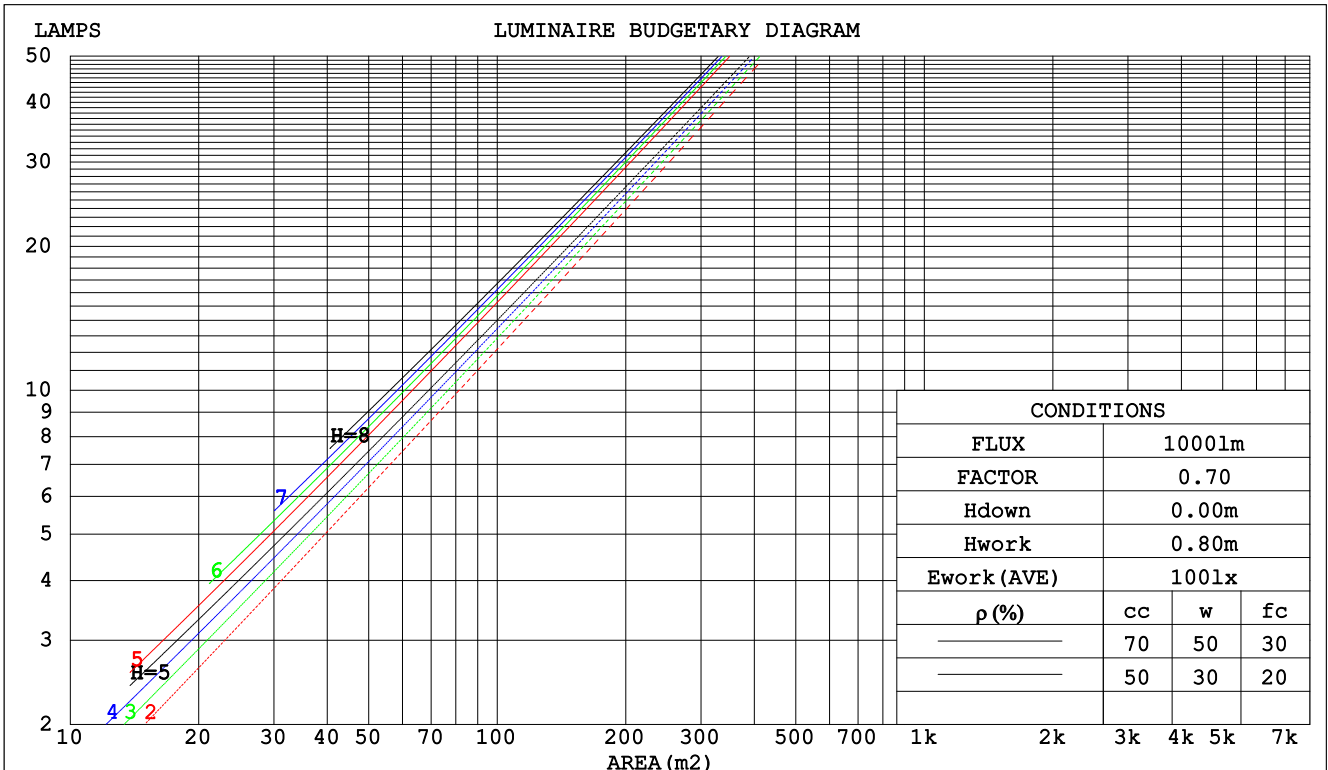
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: /	DIM.: /	SERIAL No.: /
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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	1.19	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	1.00
1.0	1.13	1.11	1.10	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.00	.99	.99	.97
2.0	1.08	1.06	1.03	1.07	1.04	1.02	1.04	1.02	.00	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.01	.98	1.03	.00	.98	1.01	.98	.96	.98	.96	.95	.96	.95	.93	.92
4.0	1.01	.97	.94	.00	.96	.94	.98	.95	.93	.96	.94	.92	.94	.92	.91	.90
5.0	.97	.94	.91	.97	.93	.90	.95	.92	.90	.94	.91	.89	.92	.90	.88	.87
6.0	.94	.91	.88	.94	.90	.88	.92	.89	.87	.91	.89	.87	.90	.88	.86	.85
7.0	.92	.88	.85	.91	.88	.85	.90	.87	.85	.89	.86	.84	.88	.86	.84	.83
8.0	.89	.85	.83	.89	.85	.83	.88	.85	.82	.87	.84	.82	.86	.84	.82	.81
9.0	.87	.83	.81	.86	.83	.80	.86	.82	.80	.85	.82	.80	.84	.82	.80	.79
10.0	.85	.81	.79	.84	.81	.78	.84	.80	.78	.83	.80	.78	.82	.80	.78	.77



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 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:2.500m [K=1.0030]
 Remarks

WEC AND CCEC

NAME: PAR30S-11-927-40D-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	.130	.074	.023	.123	.070	.022	.111	.063	.020	.099	.057	.018	.089	.051	.017	
2.0	.119	.065	.020	.113	.062	.019	.103	.057	.018	.094	.053	.016	.085	.048	.015	
3.0	.110	.059	.018	.106	.057	.017	.097	.053	.016	.089	.049	.015	.082	.045	.014	
4.0	.103	.053	.016	.099	.052	.015	.092	.049	.015	.085	.046	.014	.079	.043	.013	
5.0	.097	.049	.014	.093	.048	.014	.087	.046	.013	.082	.043	.013	.077	.041	.012	
6.0	.091	.046	.013	.089	.045	.013	.083	.043	.012	.079	.041	.012	.074	.039	.012	
7.0	.087	.043	.012	.084	.042	.012	.080	.040	.012	.076	.039	.011	.072	.037	.011	
8.0	.083	.040	.011	.081	.040	.011	.077	.038	.011	.073	.037	.011	.070	.036	.010	
9.0	.079	.038	.011	.077	.038	.011	.074	.037	.010	.071	.035	.010	.068	.034	.010	
10.0	.076	.036	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.066	.033	.009	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.168	.158	.149	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.149	.133	.119	.128	.114	.103	.088	.079	.072	.050	.046	.042	.016	.015	.014	
3.0	.134	.113	.097	.115	.098	.084	.079	.068	.059	.045	.040	.035	.015	.013	.011	
4.0	.121	.098	.080	.104	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.110	.085	.067	.094	.074	.058	.065	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.101	.075	.057	.087	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.093	.067	.049	.080	.058	.042	.055	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.086	.060	.042	.074	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.081	.054	.036	.070	.047	.032	.048	.033	.023	.028	.020	.013	.009	.006	.004	
10.0	.076	.049	.032	.065	.043	.028	.045	.030	.020	.026	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: 2.0deg/s
 Temperature:25.3DEG
 Operators:
 Test Date:16 April 2020

γ Range: 0 - 20DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:2.500m [K=1.0030]
 Remarks:

UGR(Unified Glare Rating) Table

NAME: PAR30S-11-927-40D-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	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	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	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise									
x = 2H y = 2H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4H 2H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8H 4H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12H 4H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Variations with the observer position at spacings:															
S = 1.0H	+ 0.0 / - 0.0					+ 0.0 / - 0.0									
1.5H	+ 0.0 / - 0.0					+ 0.0 / - 0.0									
2.0H	+ 0.0 / - 0.0					+ 0.0 / - 0.0									

CIE Pub.117, 323.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.9)

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UTILIZATION FACTORS TABLE

NAME: PAR30S-11-927-40D-DIM	TYPE: /	WEIGHT: /
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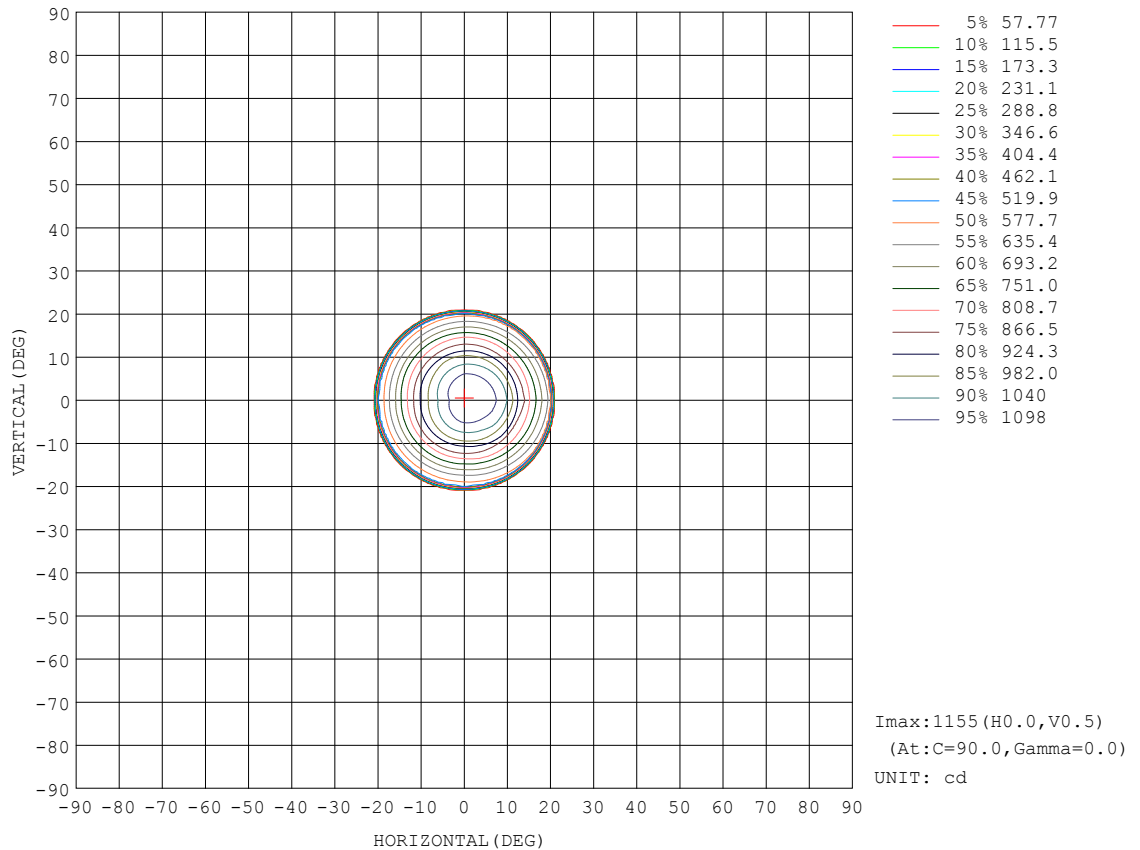
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	92	86	83	91	86	83	90	85	82	79
0.80	98	93	90	98	93	90	97	92	90	86
1.00	102	97	94	101	97	94	100	96	93	90
1.25	106	101	98	105	100	98	103	99	97	93
1.50	108	104	101	107	103	100	105	102	99	95
2.00	110	106	104	109	105	103	106	103	101	96
2.50	111	108	105	110	107	105	107	105	103	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	111	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	108	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

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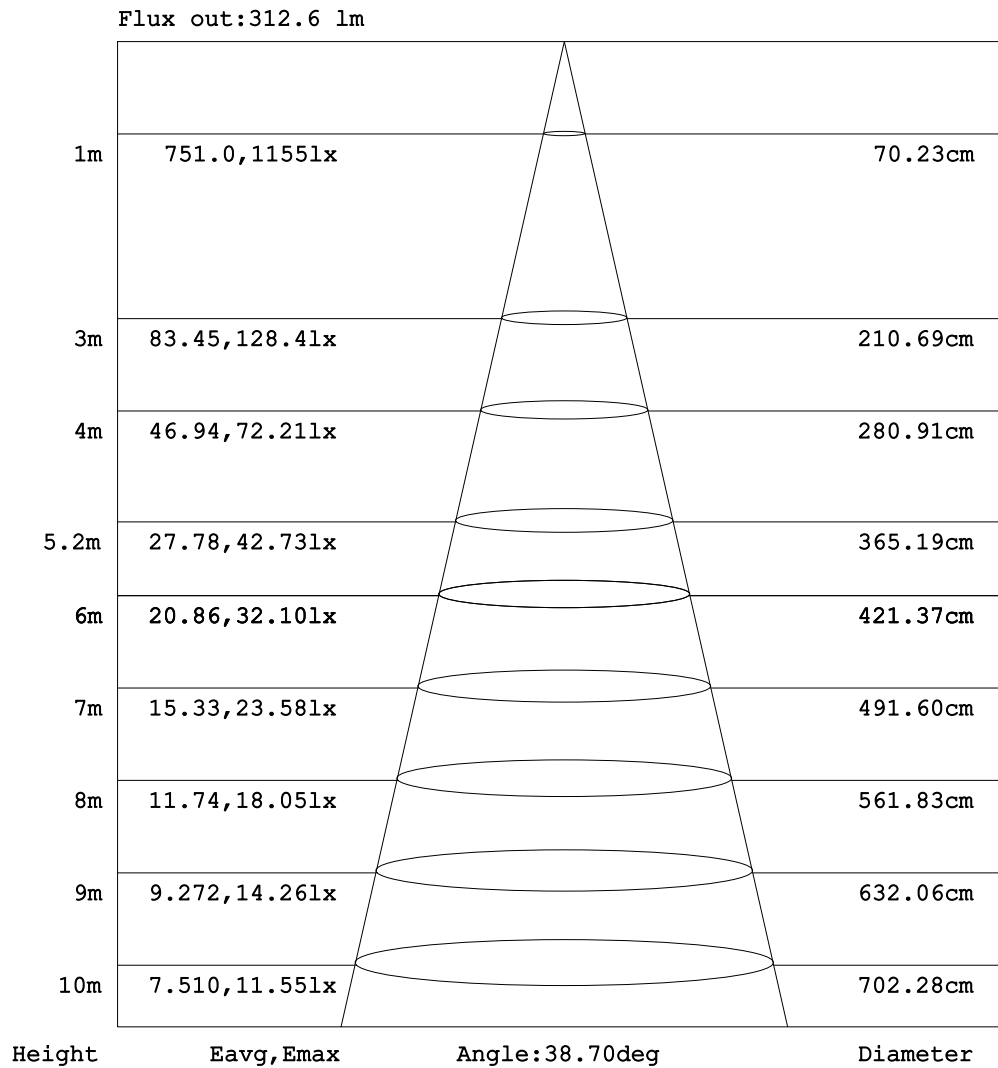


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AAI Figure

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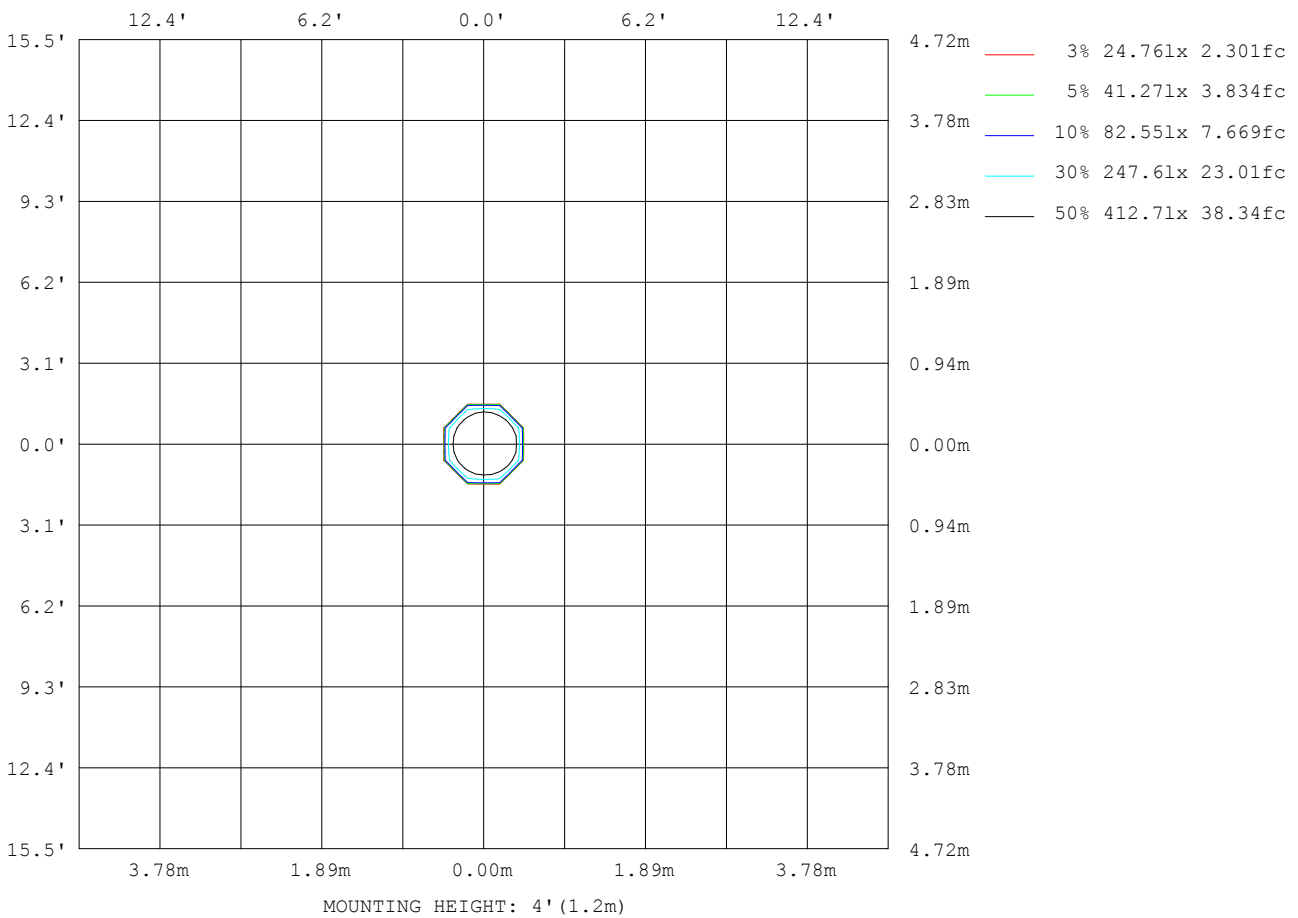
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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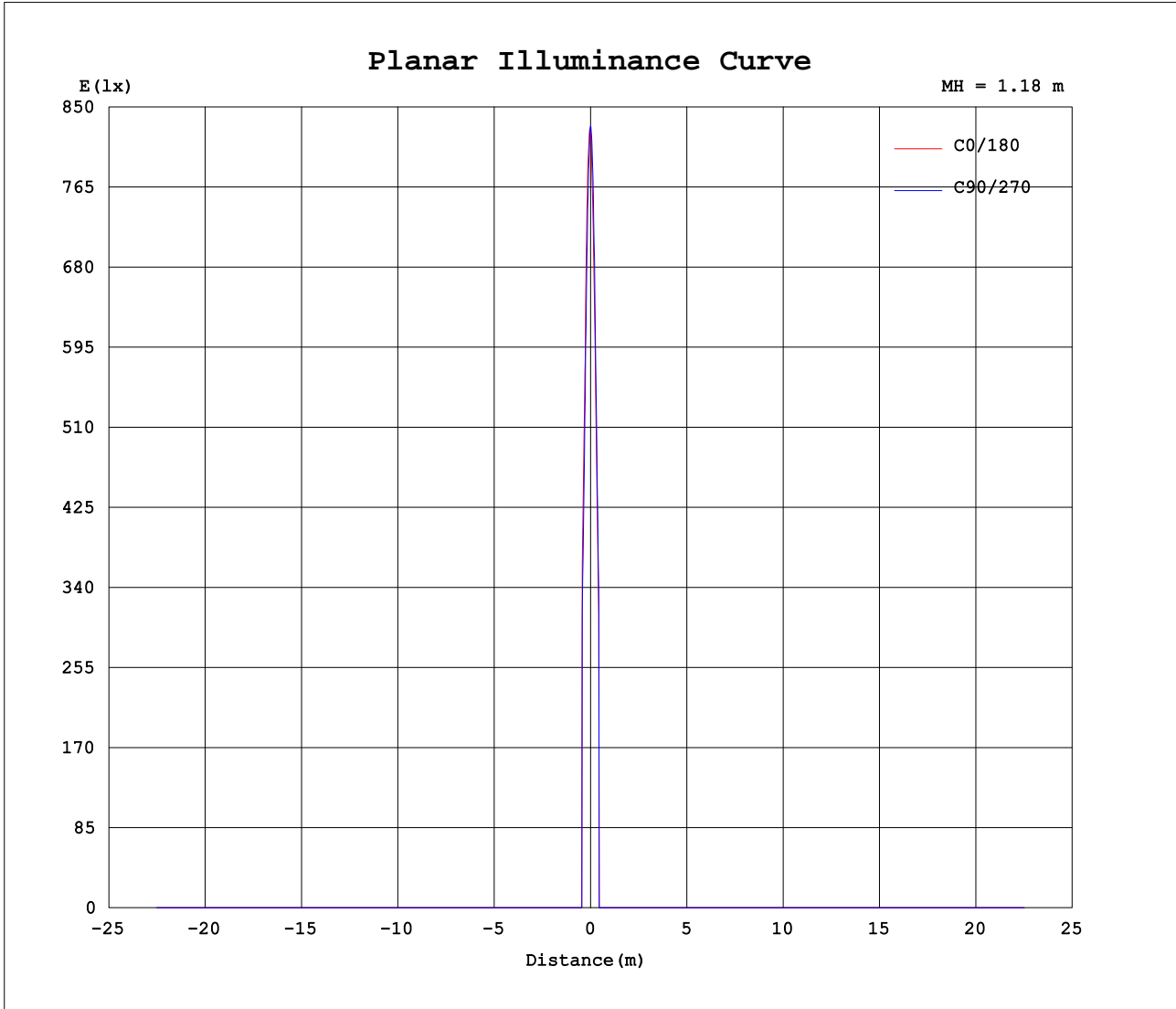
AvgL	cd/m2
L_0~180(65)av	0
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	0
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	0
L_45(75)av	0
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: 2.0deg/s
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 April 2020

γ Range: 0 - 20DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 2.500m [K=1.0030]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: 2.0deg/s
 Temperature:25.3DEG
 Operators:
 Test Date:16 April 2020

γ Range: 0 - 20DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:2.500m [K=1.0030]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: PAR30S-11-927-40D-DIM	TYPE: /	WEIGHT: /
SPEC.:/	DIM. : /	SERIAL No.:/
MFR.: RAB Lighting Inc	SUR.:/	Shielding Angle:/

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270																	
0.0	1149	1155	1149	1155																	
1.0	1152	1153	1143	1155																	
2.0	1153	1141	1130	1148																	
3.0	1148	1121	1104	1141																	
4.0	1140	1114	1089	1132																	
5.0	1132	1104	1068	1115																	
6.0	1121	1074	1042	1100																	
7.0	1109	1057	1016	1076																	
8.0	1082	1018	992	1050																	
9.0	1070	1001	959	1019																	
10.0	1036	958	931	1004																	
11.0	993	908	894	941																	
12.0	954	887	855	901																	
13.0	881	823	816	866																	
14.0	867	796	775	832																	
15.0	814	737	736	793																	
16.0	781	697	689	731																	
17.0	735	654	653	692																	
18.0	694	607	603	648																	
19.0	654	575	560	599																	
20.0	608	522	520	558																	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: 2.0deg/s
 Temperature:25.3DEG
 Operators:
 Test Date:16 April 2020

γ Range: 0 - 20DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:2.500m [K=1.0030]
 Remarks: