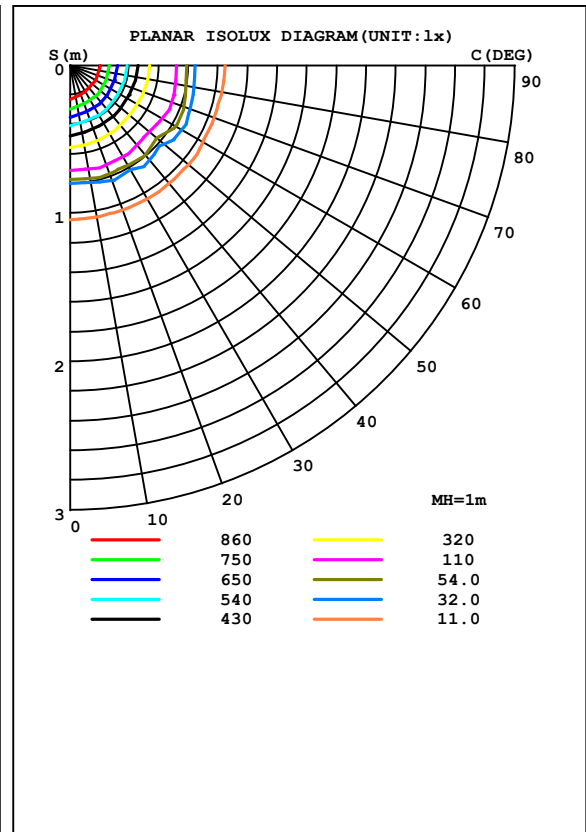
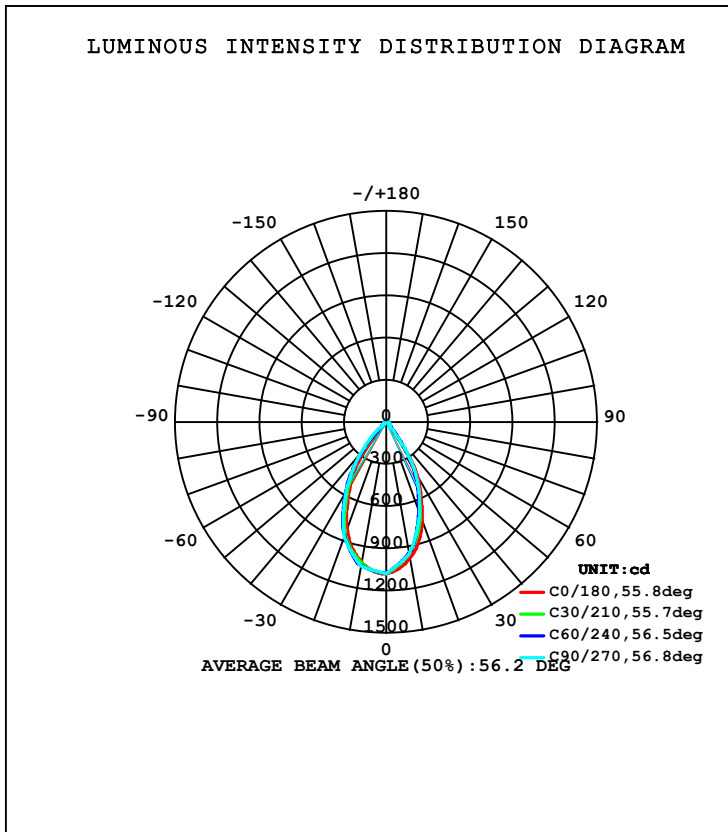


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.4V I:0.0617A P:11.27W PF:0.7600 Lamp Flux:915.222x1 lm		
NAME: R763	TYPE:3000K	WEIGHT:
SPEC.:WH	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.23 lm/W			
MODEL		I _{max} (cd)	1079	S/MH (C0/180)	0.82
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	0.78
RATED VOLTAGE (V)	240	TOTAL FLUX (lm)	915.22	UP, DN (C0-180)	0.0, 44.7
NOMINAL FLUX (lm)	915.222	CIE CLASS	DIRECT	UP, DN (C180-360)	0.0, 55.3
LAMPS INSIDE	1	up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	240.3	down (%)	100.0	CIBSE SHR MAX	0.90



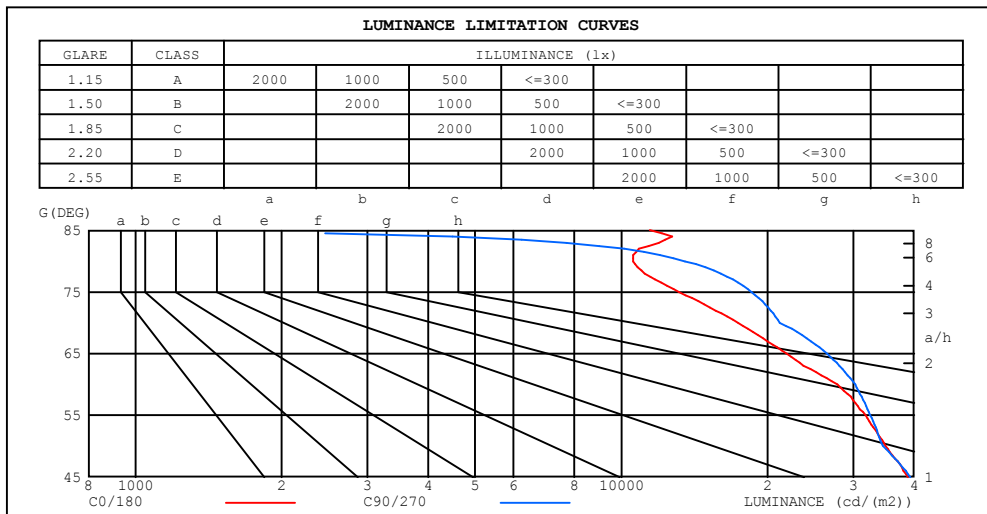
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 03
 Test Date: 2014-05-15

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.
 Humidity: 60.0%
 Test Distance: 11.540m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
5	1047	1018	1016	1030	1065	1061	1060	1049	0- 5	25.24	25.24	2.76,2.76
10	983.1	944.5	954.2	963.4	1014	1026	1042	1004	5- 10	72.54	97.78	10.7,10.7
15	888.7	844.9	825.7	871.7	931.8	965.7	958.9	937.7	10- 15	111.9	209.7	22.9,22.9
20	754.9	693.2	697.2	727.4	815.5	851.9	875.9	812.1	15- 20	137.7	347.5	38,38
25	589.7	546.1	558.2	583.9	660.0	717.2	724.9	666.4	20- 25	147.1	494.5	54,54
30	454.5	388.3	419.1	436.0	510.1	568.3	573.9	521.4	25- 30	140.4	635.0	69.4,69.4
35	220.4	194.1	230.6	250.0	347.5	434.3	419.6	372.0	30- 35	119.0	753.9	82.4,82.4
40	45.49	43.83	42.08	66.51	63.02	271.8	265.3	175.5	35- 40	71.03	825.0	90.1,90.1
45	34.54	34.34	34.97	36.77	36.43	103.4	149.8	55.78	40- 45	29.94	854.9	93.4,93.4
50	28.24	27.89	27.86	28.88	29.16	33.63	34.34	31.48	45- 50	16.70	871.6	95.2,95.2
55	22.89	22.69	23.44	23.49	23.57	27.07	28.78	25.66	50- 55	11.96	883.6	96.5,96.5
60	17.46	17.70	19.01	18.62	18.35	21.58	23.21	20.44	55- 60	10.20	893.8	97.7,97.7
65	11.62	12.40	14.06	13.40	12.35	16.44	18.59	15.04	60- 65	8.208	902.0	98.6,98.6
70	7.464	7.998	9.105	8.712	7.826	11.33	13.97	9.882	65- 70	6.002	908.0	99.2,99.2
75	4.279	4.534	6.028	5.066	4.285	6.618	9.826	5.628	70- 75	3.971	912.0	99.6,99.6
80	2.303	2.444	2.952	2.364	1.724	3.111	5.686	2.653	75- 80	2.287	914.2	99.9,99.9
85	1.251	0.5752	0	0.3869	0.6551	0.4990	0	0.4691	80- 85	0.9042	915.1	100,100
90	0.0584	0	0	0	0.0609	0	0	0	85- 90	0.0736	915.2	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	11430	0
80	10561	13533
75	13162	18544
70	17375	21195
65	21886	26483
60	27804	30271
55	31774	32533
50	34983	34514
45	38893	39378

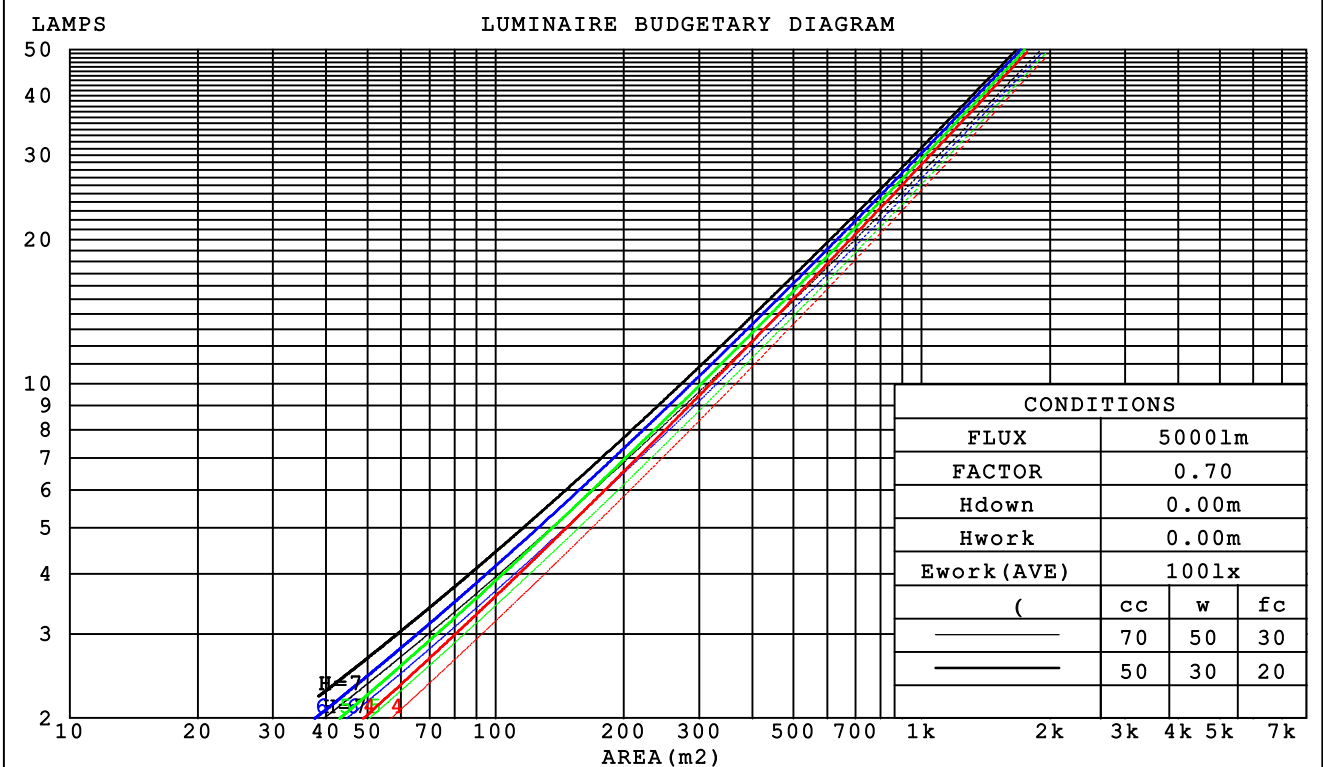
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:03
Test Date:2014-05-15

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.
Humidity:60.0%
Test Distance:11.540m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.4V I:0.0617A P:11.27W PF:0.7600 Lamp Flux:915.222x1 lm		
NAME: R763	TYPE:3000K	WEIGHT:
SPEC.:WH	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	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	.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93
2.0	1.02	.98	.95	1.01	.97	.93	.97	.94	.91	.94	.92	.89	.92	.89	.88	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.85	.82	.86	.84	.81	.80
4.0	.89	.83	.79	.88	.82	.78	.85	.81	.77	.83	.79	.76	.81	.78	.75	.74
5.0	.83	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.71	.77	.73	.70	.69
6.0	.78	.72	.67	.77	.71	.67	.75	.70	.66	.74	.69	.66	.73	.69	.66	.64
7.0	.73	.67	.63	.72	.67	.62	.71	.66	.62	.70	.65	.62	.69	.65	.61	.60
8.0	.69	.63	.59	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.56
9.0	.65	.59	.55	.64	.59	.55	.63	.58	.55	.63	.58	.54	.62	.57	.54	.53
10.0	.61	.56	.52	.61	.55	.52	.60	.55	.51	.59	.55	.51	.59	.54	.51	.50



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2014-05-15

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:240.4V I:0.0617A P:11.27W PF:0.7600 Lamp Flux:915.222x1 lm		
NAME: R763	TYPE:3000K	WEIGHT:
SPEC.:WH	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.186	.106	.034	.179	.102	.033	.167	.096	.031	.155	.089	.029	.144	.084	.027	
2.0	.178	.098	.030	.172	.095	.029	.162	.090	.028	.152	.085	.027	.143	.081	.025	
3.0	.169	.090	.027	.164	.088	.026	.155	.084	.026	.147	.080	.025	.139	.077	.024	
4.0	.161	.083	.025	.156	.082	.024	.149	.079	.024	.141	.076	.023	.134	.073	.022	
5.0	.153	.078	.023	.149	.076	.022	.142	.074	.022	.136	.072	.021	.130	.069	.021	
6.0	.145	.073	.021	.142	.072	.021	.136	.070	.020	.130	.068	.020	.125	.066	.020	
7.0	.138	.068	.019	.136	.068	.019	.130	.066	.019	.125	.064	.019	.120	.063	.018	
8.0	.132	.065	.018	.130	.064	.018	.125	.062	.018	.120	.061	.018	.116	.060	.017	
9.0	.126	.061	.017	.124	.061	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016	
10.0	.121	.058	.016	.119	.057	.016	.115	.056	.016	.111	.055	.016	.108	.054	.016	

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	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	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.135	.114	.097	.092	.079	.067	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.036	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2014-05-15

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:240.4V I:0.0617A P:11.27W PF:0.7600 Lamp Flux:915.222x1 lm										
NAME: R763					TYPE:3000K			WEIGHT:		
SPEC.:WH					DIM.:			SERIAL No.:1		
MFR.: AXG					SUR.:			PROTECTION 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	22.1	23.1	22.4	23.3	23.5	22.1	23.1	22.3	23.2	23.4
3H	22.3	23.2	22.5	23.4	23.6	22.3	23.2	22.6	23.4	23.6
4H	22.3	23.1	22.5	23.3	23.6	22.4	23.3	22.7	23.5	23.7
6H	22.2	23.0	22.5	23.3	23.5	22.5	23.3	22.8	23.5	23.8
8H	22.2	23.0	22.5	23.2	23.5	22.4	23.2	22.8	23.5	23.7
12H	22.2	22.9	22.5	23.2	23.5	22.4	23.1	22.7	23.4	23.7
4H 2H	22.1	23.0	22.4	23.2	23.4	22.0	22.9	22.3	23.1	23.3
3H	22.3	23.0	22.6	23.3	23.6	22.4	23.2	22.7	23.4	23.7
4H	22.3	23.0	22.7	23.3	23.6	22.6	23.2	22.9	23.5	23.9
6H	22.3	22.9	22.7	23.3	23.6	22.7	23.3	23.0	23.6	23.9
8H	22.3	22.9	22.7	23.2	23.6	22.7	23.2	23.1	23.6	23.9
12H	22.3	22.8	22.7	23.2	23.6	22.6	23.1	23.0	23.5	23.9
8H 4H	22.3	22.8	22.7	23.2	23.6	22.5	23.1	22.9	23.4	23.8
6H	22.3	22.8	22.7	23.2	23.6	22.7	23.1	23.1	23.5	23.9
8H	22.3	22.7	22.8	23.1	23.6	22.7	23.1	23.1	23.5	23.9
12H	22.4	22.7	22.8	23.1	23.6	22.6	23.0	23.1	23.4	23.9
12H 4H	22.2	22.7	22.7	23.1	23.5	22.5	23.0	22.9	23.4	23.7
6H	22.3	22.7	22.7	23.1	23.5	22.6	23.0	23.1	23.4	23.9
8H	22.3	22.6	22.8	23.1	23.6	22.6	23.0	23.1	23.4	23.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 1.3					+ 1.8 / - 2.1				
1.5H	+ 2.4 / - 1.0					+ 3.6 / - 1.8				
2.0H	+ 0.7 / - 0.8					+ 0.4 / - 0.5				

CIE Pub.117 Corrected 915.2 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.3)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2014-05-15

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.4V I:0.0617A P:11.27W PF:0.7600 Lamp Flux:915.222x1 lm		
NAME: R763	TYPE:3000K	WEIGHT:
SPEC.:WH	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:

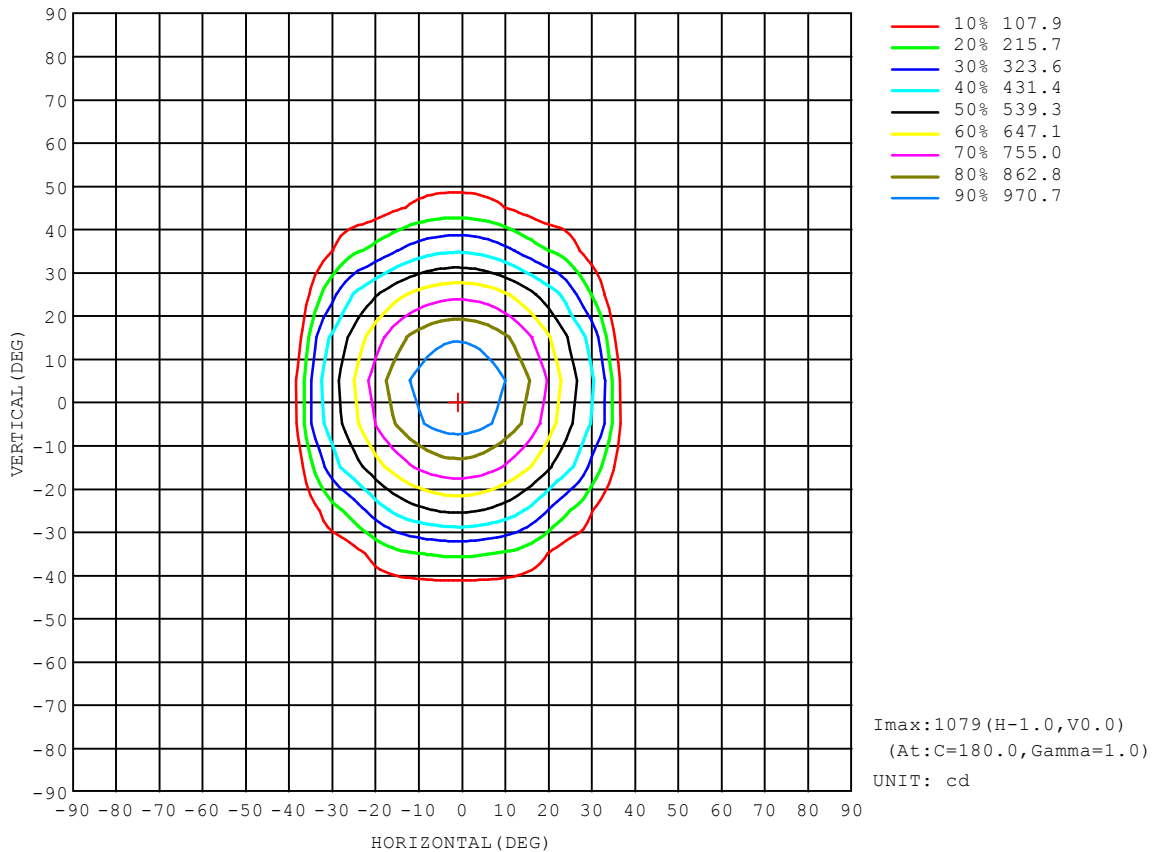
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	85	79	75	85	79	75	84	78	75	71
0.80	93	87	83	92	86	83	91	86	82	78
1.00	98	92	88	97	91	88	95	91	87	83
1.25	102	96	93	101	96	92	99	95	92	87
1.50	105	100	96	104	99	96	101	97	95	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	105	102	108	104	101	105	102	100	93
3.00	111	108	105	109	106	104	106	103	101	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	113	110	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2014-05-15

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.4V I:0.0617A P:11.27W PF:0.7600 Lamp Flux:915.222x1 lm		
NAME: R763	TYPE:3000K	WEIGHT:
SPEC.:WH	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:

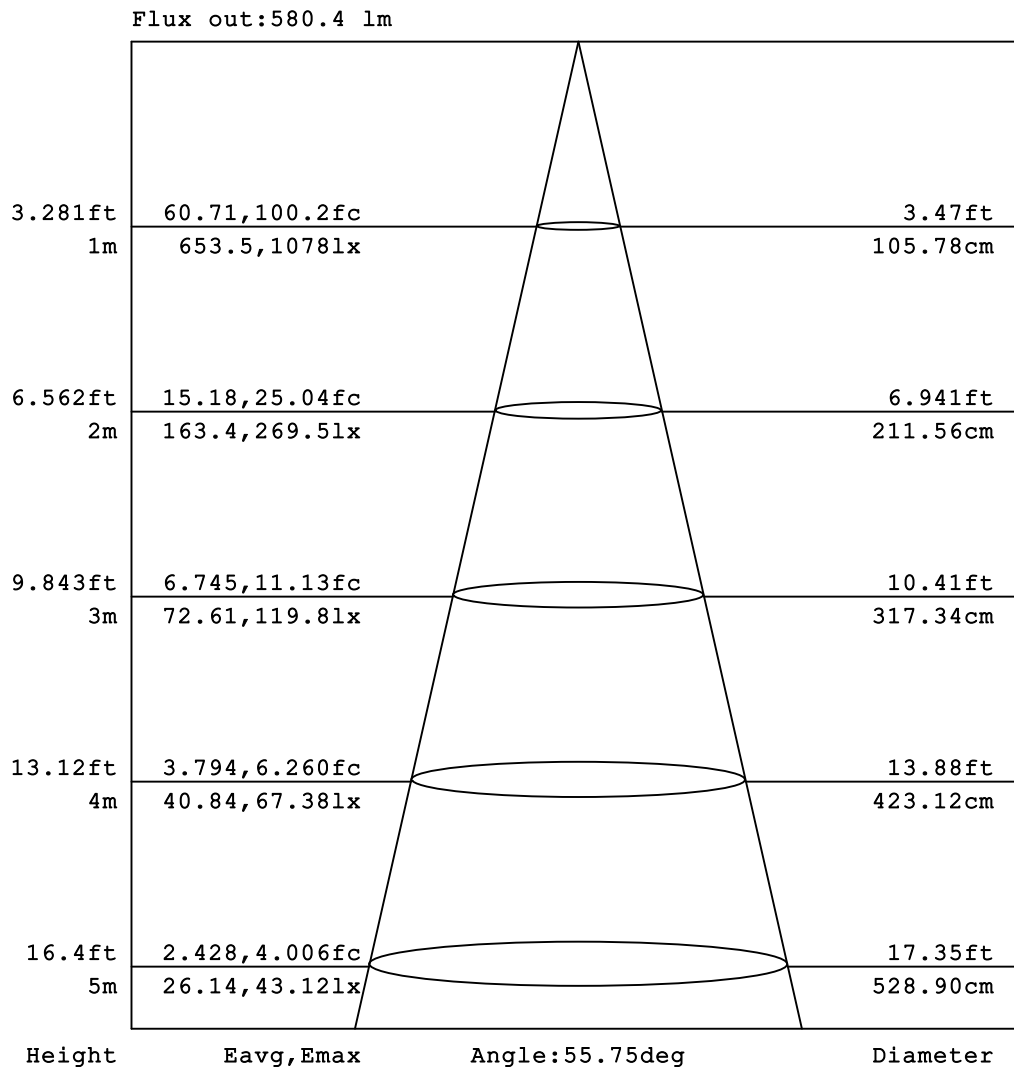


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2014-05-15

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

AAI Figure

Test:U:240.4V I:0.0617A P:11.27W PF:0.7600 Lamp Flux:915.222x1 lm		
NAME: R763	TYPE:3000K	WEIGHT:
SPEC.:WH	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:



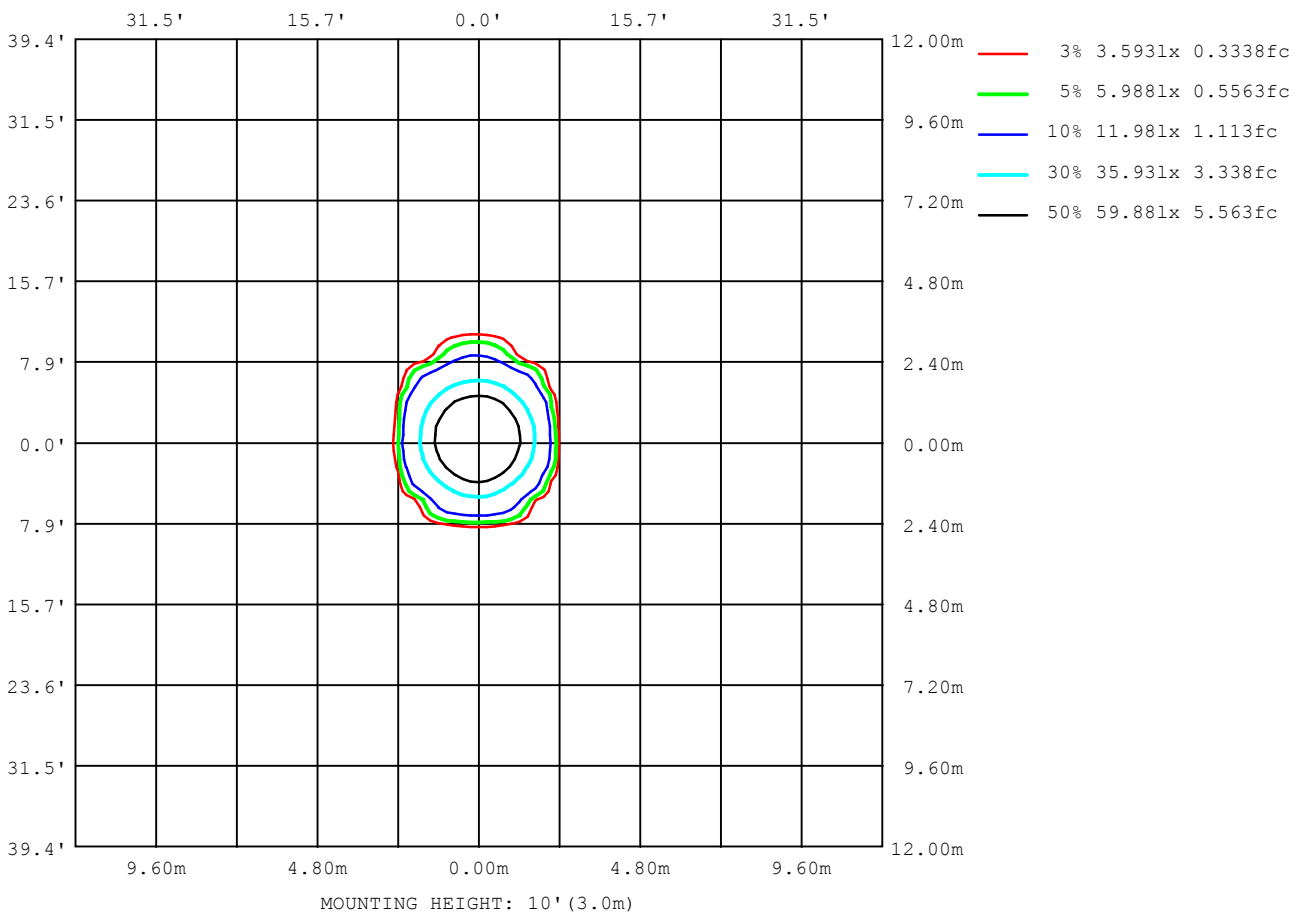
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2014-05-15

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

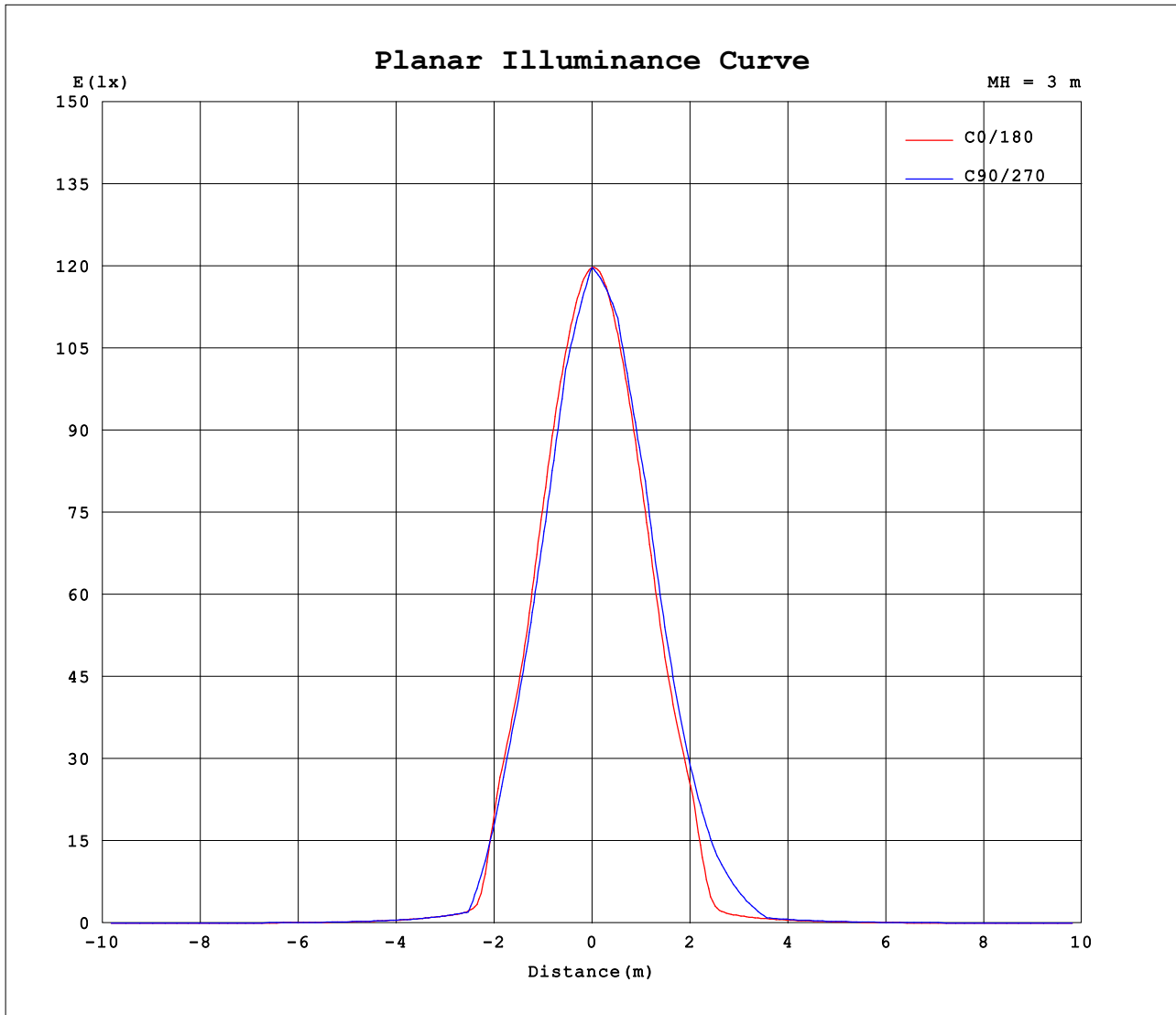
Test:U:240.4V I:0.0617A P:11.27W PF:0.7600 Lamp Flux:915.222x1 lm		
NAME: R763	TYPE:3000K	WEIGHT:
SPEC.:WH	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
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Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 03
 Test Date: 2014-05-15

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.
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 Remarks: