

Report No.: 01

Test Time: 2016/9/5 19:42

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linearlyte

Luminaire Description: PC2 3500K LO

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.068 A

Power Factor: 0.933

Luminous Width (mm):

Voltage: 219.8 V

Power: 14.02 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 1475.2 lm

Downward Ratio: 78%

Horizontal Diffuse Angle(50%): H171.7

Vertical Diffuse Angle(50%): V105.8

Luminaire Efficacy Rating (LER): 105

Max. Intensity: 317.64 cd

Total Rated Lamp Lumens: 1475.2 lm

Efficiency: 100%

Upward Ratio: 22%

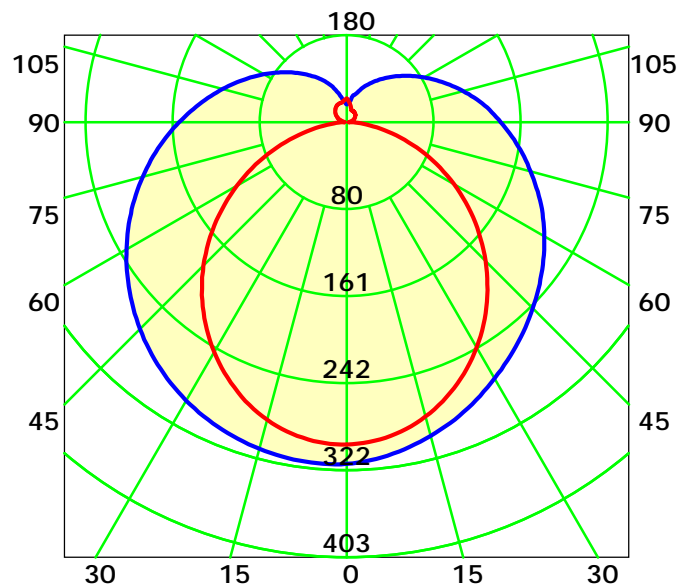
Central Intensity: 316.79 cd

Pos of Max. Intensity: H180 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 138.8° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0: 1.0

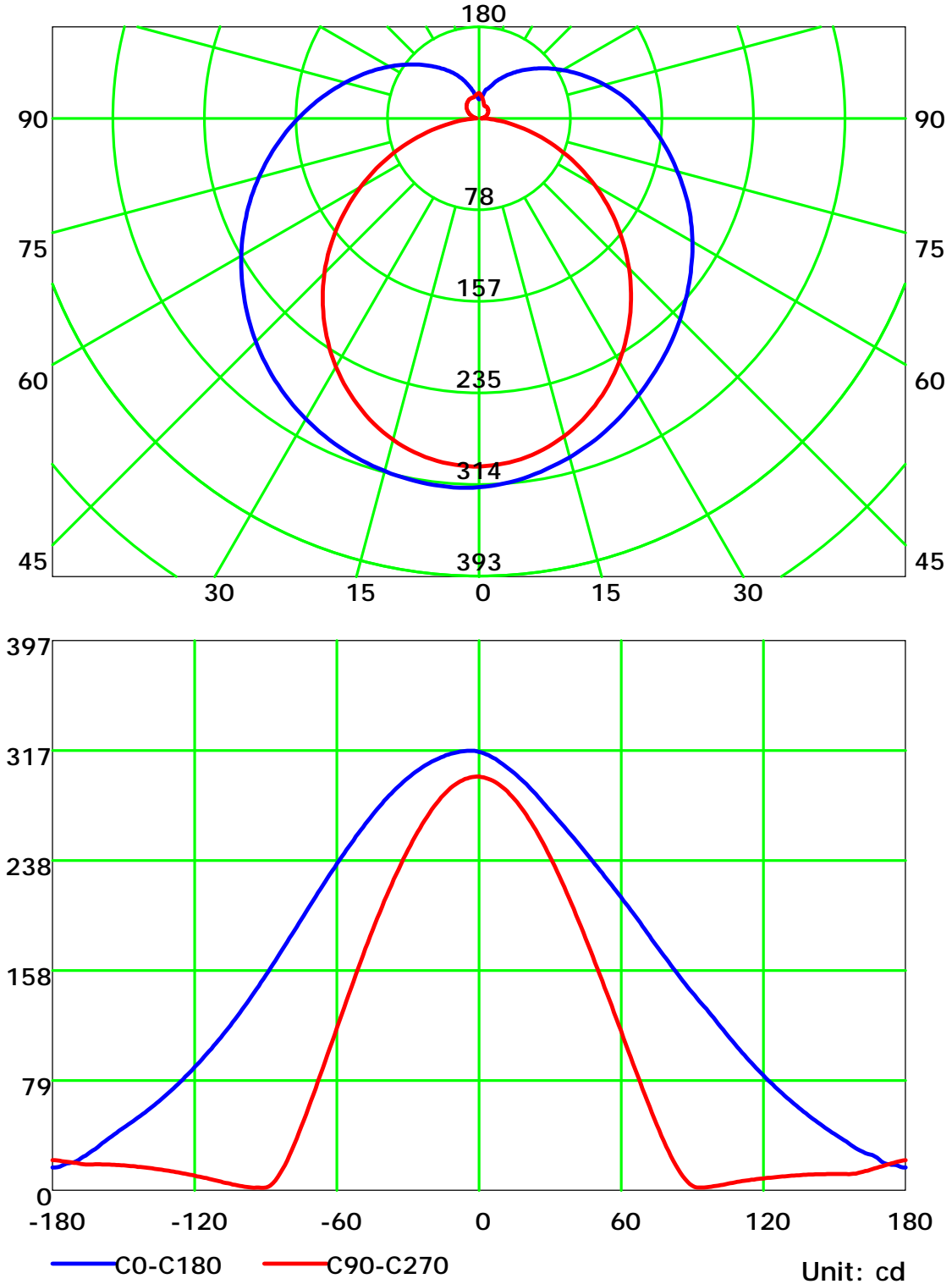
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

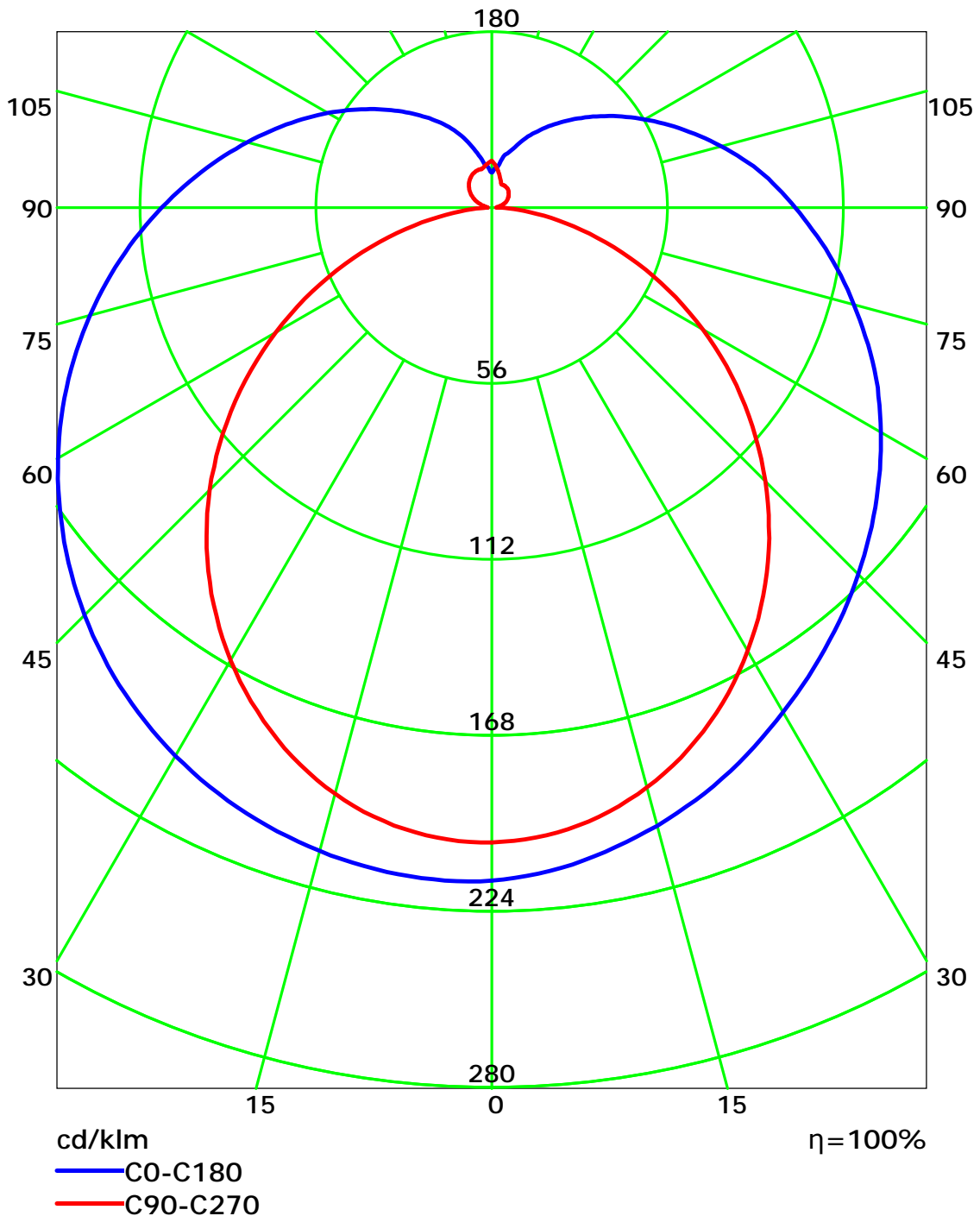
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

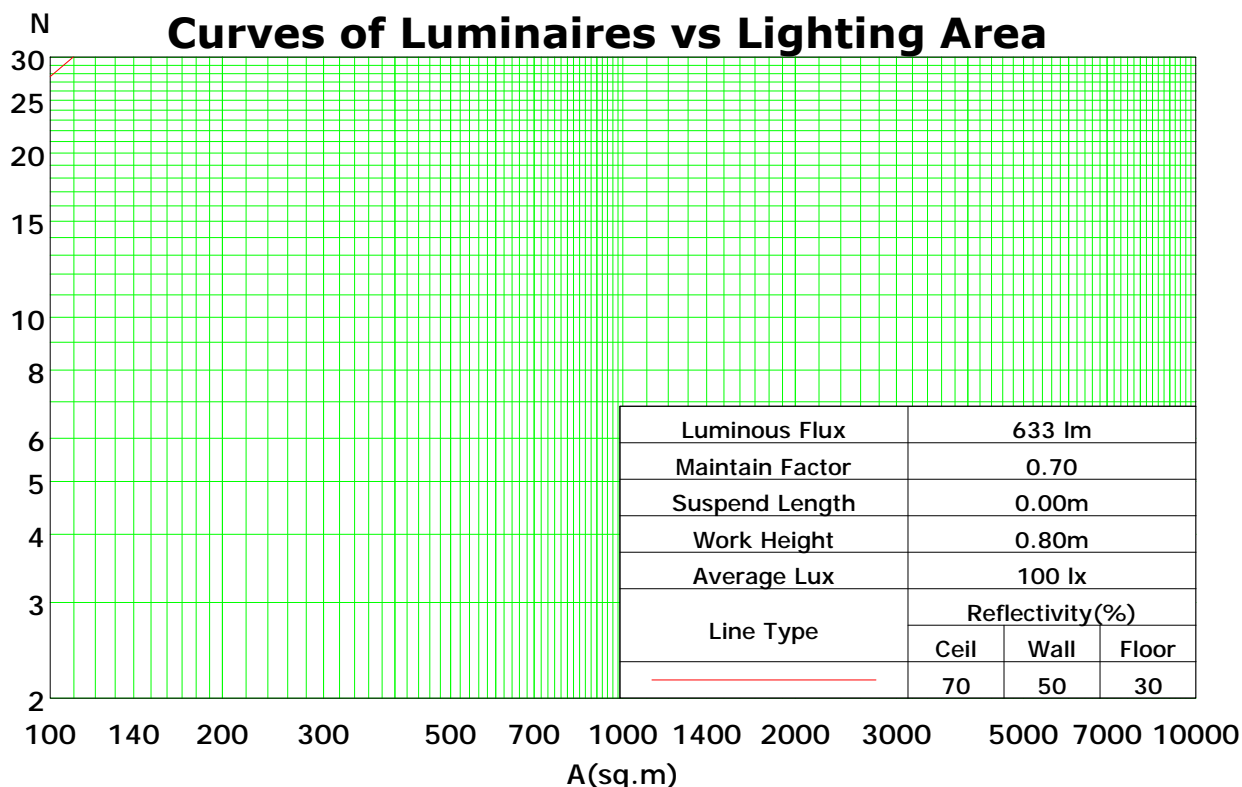
Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	101	95	89	85	96	90	85	81	82	78	74	74	71	68	67	65	62	59
2	90	81	73	67	86	77	70	64	70	64	59	63	59	55	57	53	50	47
3	82	70	61	54	77	67	59	52	61	54	49	55	50	45	50	45	41	38
4	75	62	52	45	70	59	50	44	54	46	41	49	43	38	44	39	35	32
5	68	55	45	38	65	52	44	37	48	40	35	43	37	32	39	34	30	27
6	63	49	40	33	59	47	38	32	43	35	30	39	33	28	35	30	26	24
7	58	44	35	29	55	42	34	28	39	32	26	35	29	25	32	27	23	21
8	54	40	31	26	51	39	30	25	35	28	23	32	26	22	30	24	20	18
9	50	37	28	23	48	35	27	22	32	26	21	30	24	20	27	22	18	16
10	47	34	26	20	45	32	25	20	30	23	19	28	22	18	25	20	17	15

Spacing Criteria (0-180): 1.35

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.42



C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

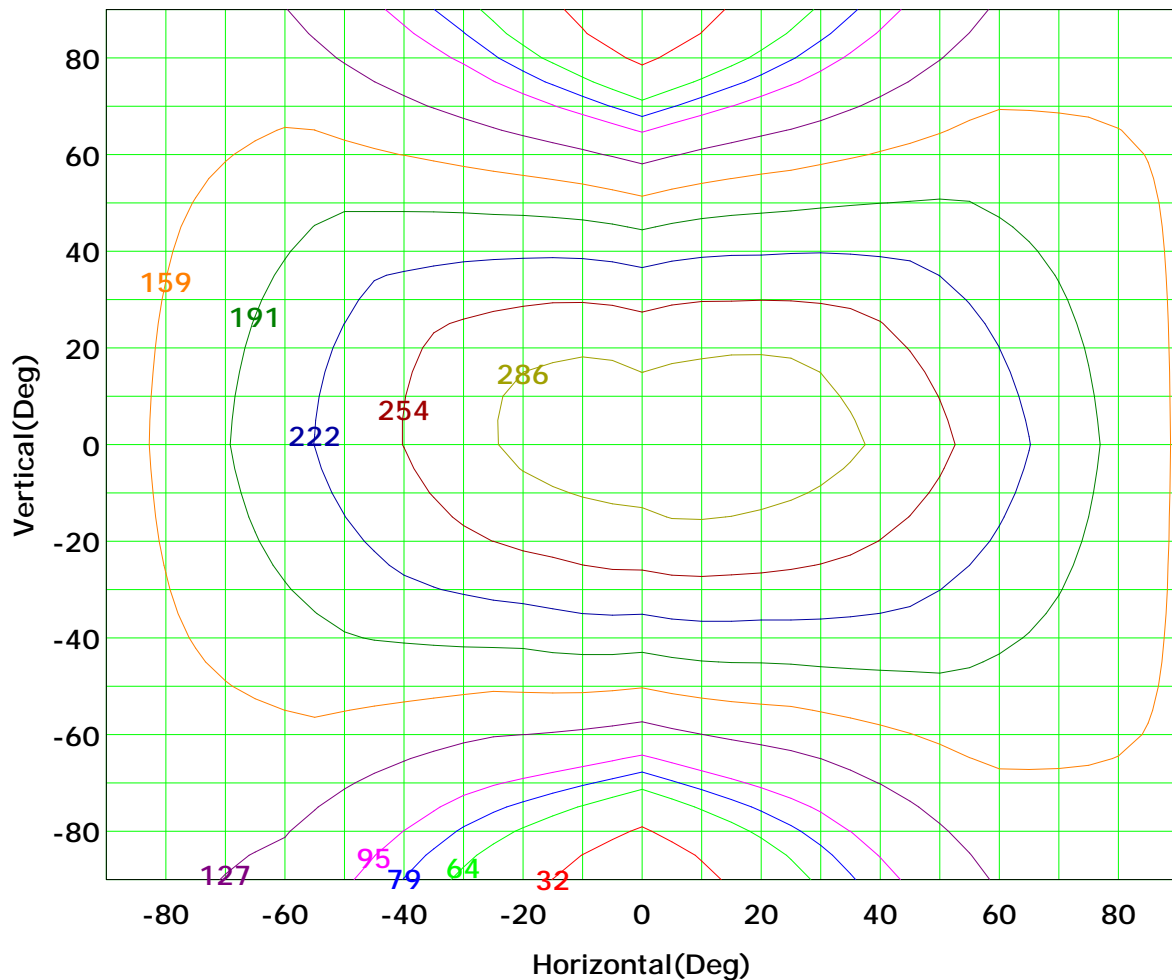
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 318 cd

(10%): 32 cd	(20%): 64 cd
(25%): 79 cd	(30%): 95 cd
(40%): 127 cd	(50%): 159 cd
(60%): 191 cd	(70%): 222 cd
(80%): 254 cd	(90%): 286 cd

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

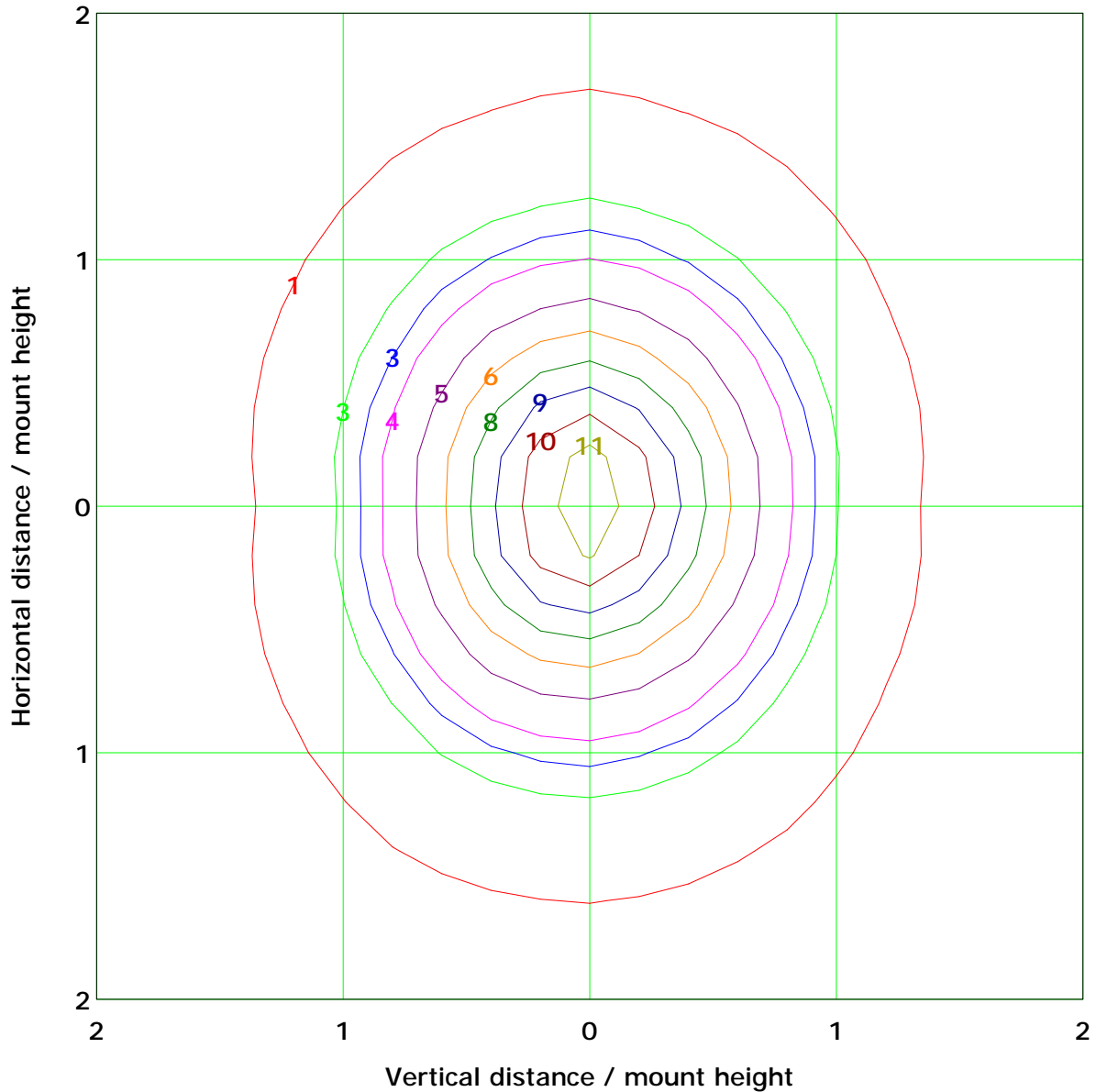
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 12.7 lx	
(10%): 1.3 lx	(20%): 2.5 lx
(25%): 3.2 lx	(30%): 3.8 lx
(40%): 5.1 lx	(50%): 6.3 lx
(60%): 7.6 lx	(70%): 8.9 lx
(80%): 10.1 lx	(90%): 11.4 lx

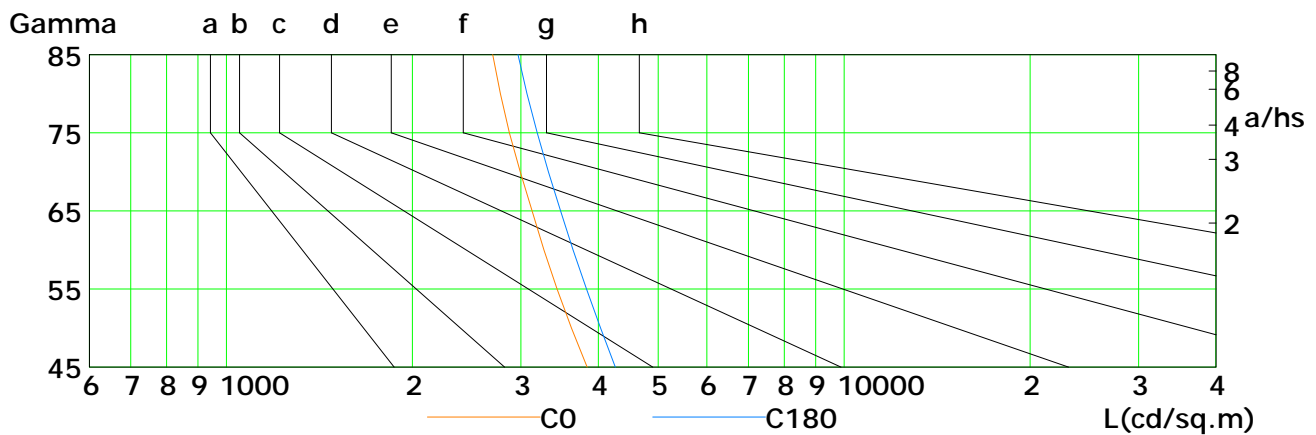
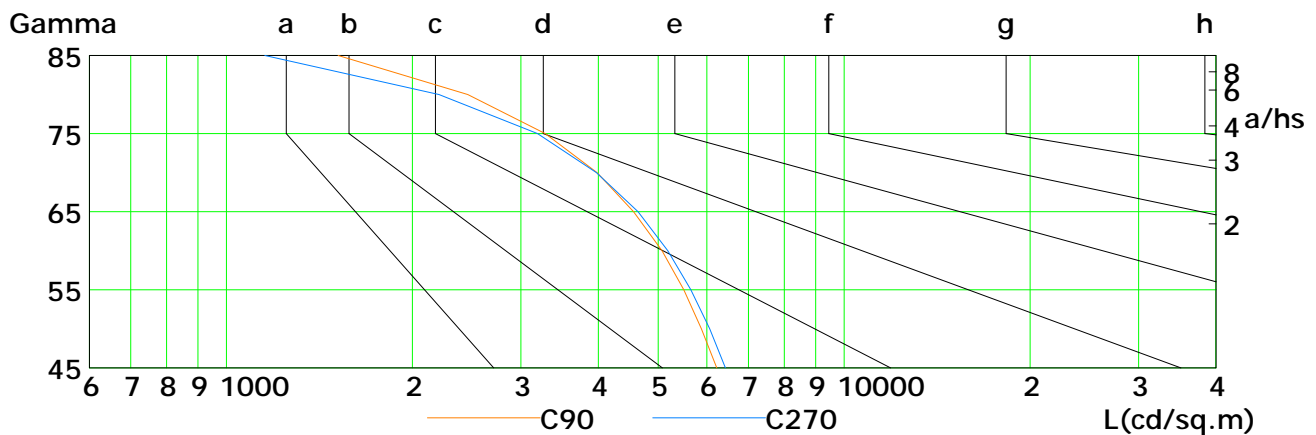
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3837	3622	3431	3268	3126	2991	2871	2779	2701
C90	6227	5877	5502	5072	4566	3985	3281	2459	1517
C180	4263	4034	3828	3644	3476	3324	3187	3067	2965
C270	6424	6063	5648	5182	4640	3972	3190	2210	1154

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

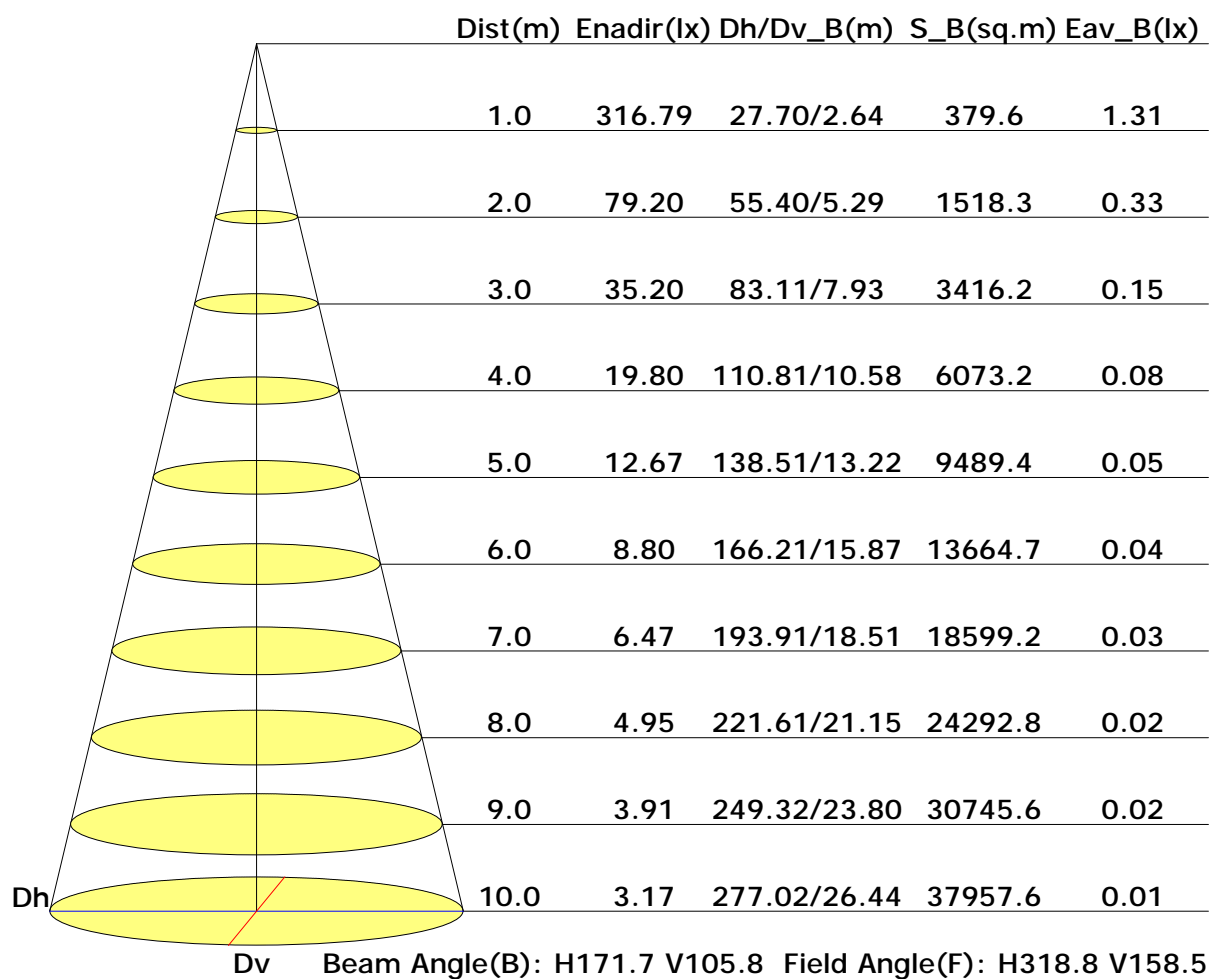
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

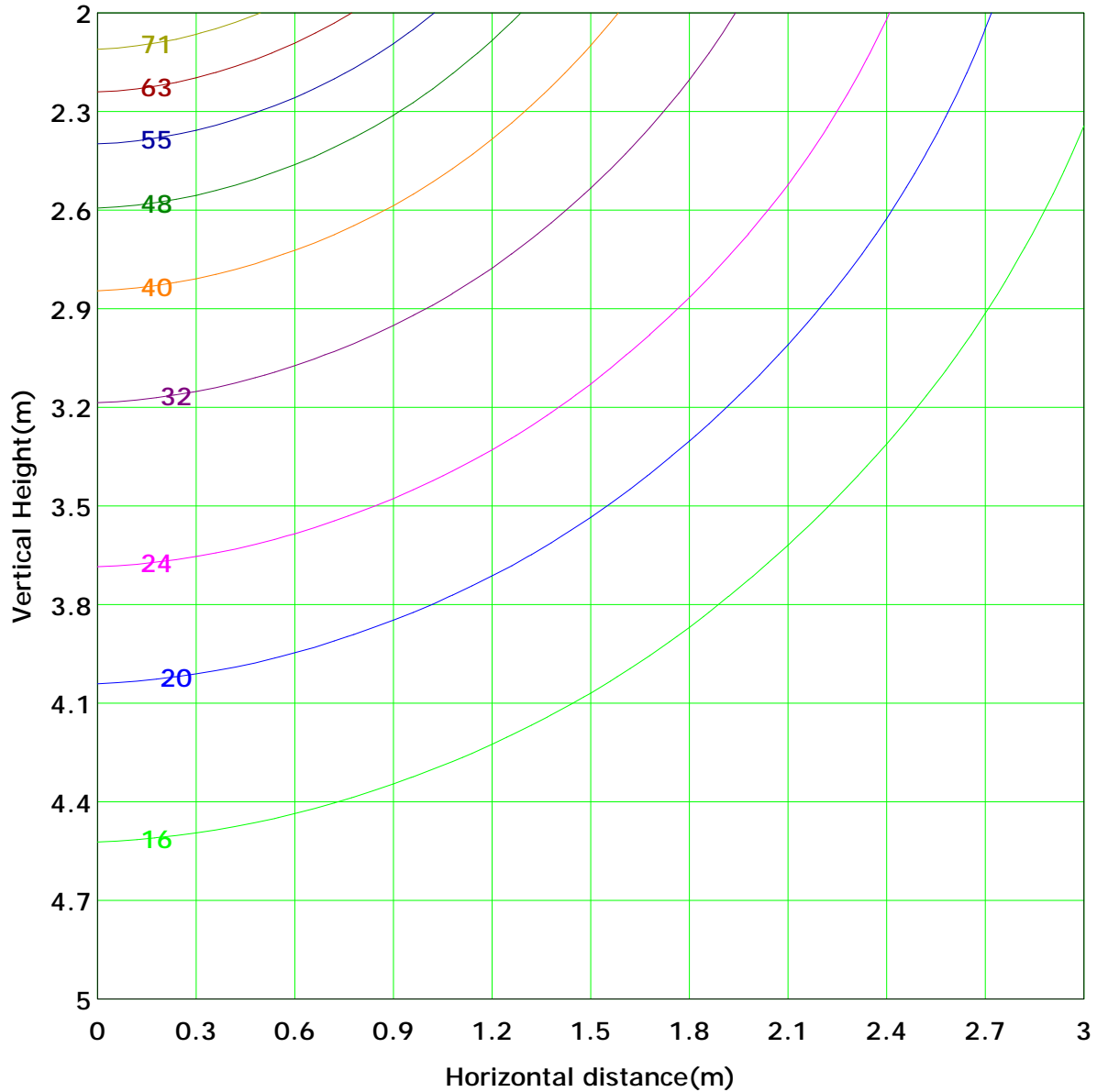
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 79.2 lx
(10%): 7.9 lx	(20%): 15.8 lx	
(25%): 19.8 lx	(30%): 23.8 lx	
(40%): 31.7 lx	(50%): 39.6 lx	
(60%): 47.5 lx	(70%): 55.4 lx	
(80%): 63.4 lx	(90%): 71.3 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Area Flux Table

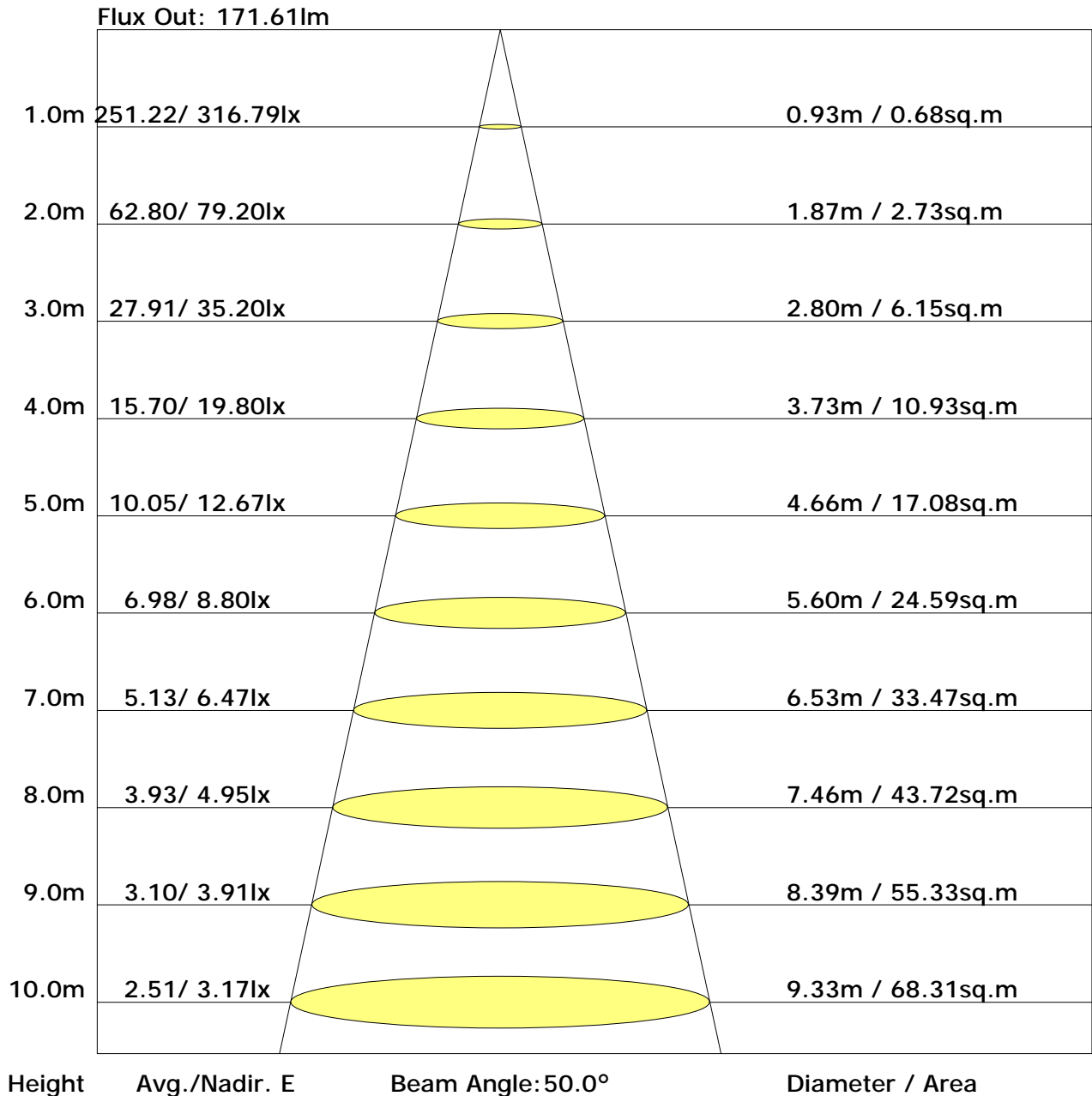
Unit: lm

		Only int																			
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	$\phi_{\text{Flux(T)}}$	$\phi_{\text{Flux(E)}}$
Vertical plane	-90	0.4	1.2	1.8	2.2	2.3	2.2	1.8	1.3	0.7	0.7	1.4	1.9	2.2	2.3	2.2	1.7	1.1	0.4	27.7	26.6
	-80	0.4	1.2	2.0	2.5	2.7	2.8	2.6	2.2	1.7	1.7	2.3	2.6	2.8	2.7	2.5	1.9	1.1	0.4	36.1	36.1
	-70	0.4	1.3	2.1	2.8	3.3	3.5	3.5	3.4	3.1	3.1	3.4	3.6	3.5	3.2	2.8	2.0	1.2	0.4	46.5	46.5
	-60	0.4	1.3	2.3	3.2	3.8	4.3	4.6	4.7	4.5	4.5	4.6	4.5	4.2	3.7	3.1	2.1	1.2	0.4	57.5	57.5
	-50	0.4	1.4	2.4	3.5	4.4	5.1	5.6	5.9	5.9	5.8	5.8	5.5	5.0	4.3	3.3	2.3	1.3	0.4	68.2	68.2
	-40	0.4	1.4	2.6	3.7	4.9	5.9	6.5	6.9	7.0	7.0	6.9	6.4	5.7	4.7	3.5	2.4	1.3	0.4	77.9	77.9
	-30	0.4	1.5	2.7	4.0	5.3	6.5	7.4	7.9	8.0	8.0	7.8	7.2	6.2	5.0	3.7	2.5	1.4	0.4	85.9	85.9
	-20	0.5	1.5	2.8	4.2	5.6	6.9	8.0	8.6	8.7	8.8	8.5	7.7	6.5	5.2	3.8	2.5	1.4	0.4	91.6	91.6
	-10	0.5	1.5	2.8	4.3	5.8	7.2	8.3	9.1	9.2	9.2	8.8	7.8	6.6	5.2	3.9	2.6	1.4	0.4	94.6	94.6
	0	0.5	1.5	2.8	4.3	5.7	7.1	8.2	8.9	9.2	9.0	8.6	7.7	6.5	5.2	3.8	2.6	1.4	0.4	93.4	93.4
10	0.5	1.5	2.8	4.1	5.5	6.7	7.7	8.4	8.7	8.5	8.1	7.3	6.2	5.0	3.7	2.5	1.4	0.4	88.7	88.7	
20	0.4	1.5	2.6	3.9	5.1	6.2	7.1	7.6	7.9	7.8	7.3	6.7	5.8	4.7	3.5	2.4	1.3	0.4	82.3	82.3	
30	0.4	1.4	2.5	3.6	4.7	5.6	6.2	6.7	6.9	6.8	6.4	5.9	5.2	4.3	3.3	2.3	1.3	0.4	74.0	74.0	
40	0.4	1.4	2.4	3.4	4.2	4.9	5.3	5.6	5.6	5.6	5.4	5.0	4.5	3.9	3.1	2.1	1.2	0.4	64.3	64.3	
50	0.4	1.3	2.2	3.1	3.7	4.1	4.3	4.3	4.3	4.3	4.3	4.0	3.8	3.4	2.8	2.0	1.2	0.4	54.0	54.0	
60	0.4	1.3	2.1	2.8	3.1	3.3	3.4	3.3	3.0	2.9	3.1	3.1	3.1	2.9	2.5	1.9	1.1	0.4	43.6	43.6	
70	0.4	1.2	1.9	2.5	2.7	2.7	2.5	2.2	1.7	1.7	2.0	2.3	2.4	2.4	2.2	1.7	1.1	0.4	34.0	34.0	
80	0.4	1.1	1.8	2.2	2.3	2.3	2.1	1.8	1.3	0.7	0.7	1.2	1.6	1.9	2.1	2.0	1.6	1.0	0.4	26.3	25.2
90	7.8	24.5	42.5	60.1	75.1	86.9	94.7	98.4	96.9	96.2	95.9	95.7	90.8	82.1	70.2	55.7	39.1	22.5	7.1	1147	
Flux(T)	7.8	24.5	42.5	60.1	75.1	86.9	94.7	98.3	95.9	95.1	95.7	90.8	82.1	70.2	55.7	39.1	22.5	7.1	1147		
Flux(E)	7.8	24.5	42.5	60.1	75.1	86.9	94.7	98.3	95.9	95.1	95.7	90.8	82.1	70.2	55.7	39.1	22.5	7.1			1144
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	$\phi_{\text{Flux(T)}}$	$\phi_{\text{Flux(E)}}$
		Horizontal plane																			

C Plane (°): 0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

The Average Illuminance Effective Figure



UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	15.4	16.7	16.1	17.4	18.2	11.0	12.3	11.6	13.0	13.8
3H	18.3	19.5	19.0	20.2	21.0	12.3	13.5	13.0	14.2	15.0
4H	19.8	20.9	20.5	21.6	22.5	12.7	13.9	13.4	14.6	15.4
6H	21.3	22.4	22.0	23.1	24.0	13.0	14.0	13.7	14.8	15.6
8H	22.1	23.1	22.8	23.9	24.7	13.0	14.0	13.7	14.8	15.6
12H	22.9	23.9	23.7	24.7	25.5	13.0	14.0	13.8	14.7	15.6
X=4H Y=2H	15.7	16.8	16.4	17.5	18.4	12.2	13.4	12.9	14.1	14.9
3H	18.8	19.8	19.5	20.5	21.4	13.8	14.8	14.5	15.6	16.4
4H	20.4	21.3	21.1	22.1	22.9	14.4	15.3	15.1	16.1	17.0
6H	22.1	22.9	22.9	23.7	24.6	14.8	15.6	15.5	16.4	17.3
8H	23.0	23.8	23.8	24.5	25.5	14.9	15.7	15.7	16.4	17.4
12H	24.0	24.7	24.7	25.5	26.4	15.0	15.7	15.7	16.4	17.4
X=8H Y=4H	20.5	21.3	21.3	22.1	23.0	15.5	16.3	16.3	17.1	18.0
6H	22.4	23.1	23.2	23.9	24.8	16.2	16.8	16.9	17.6	18.5
8H	23.4	24.0	24.2	24.8	25.8	16.4	17.0	17.2	17.8	18.7
12H	24.6	25.1	25.3	25.9	26.9	16.6	17.1	17.3	17.9	18.9
X=12H Y=4H	20.5	21.2	21.3	22.0	22.9	15.9	16.6	16.7	17.4	18.3
6H	22.4	23.0	23.2	23.8	24.8	16.7	17.3	17.5	18.1	19.0
8H	23.5	24.0	24.3	24.8	25.8	17.0	17.6	17.8	18.4	19.3

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
 Test Lab: ACOLYTE
 Test Type: TYPE C
 Temperature: 25°C
 Operator:

Gamma Plane (°):0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.48	0.56	0.63	0.68	0.75	0.80	0.83	0.88	0.92
	0.30		0.40	0.48	0.55	0.60	0.68	0.73	0.77	0.83	0.87
	0.20		0.35	0.42	0.49	0.54	0.62	0.68	0.72	0.79	0.83
0.50	0.50	0.20	0.45	0.51	0.58	0.62	0.68	0.73	0.76	0.80	0.83
	0.30		0.38	0.45	0.51	0.56	0.63	0.67	0.71	0.76	0.80
	0.20		0.33	0.40	0.46	0.51	0.58	0.63	0.67	0.72	0.76
0.30	0.50	0.20	0.41	0.47	0.53	0.57	0.62	0.66	0.69	0.73	0.76
	0.30		0.35	0.41	0.47	0.51	0.58	0.62	0.65	0.70	0.73
	0.20		0.31	0.37	0.43	0.47	0.54	0.58	0.62	0.67	0.70
0.00	0.00	0.00	0.27	0.32	0.37	0.41	0.46	0.50	0.53	0.58	0.61
Rating: 14W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	1.00	0.87	0.75	0.67	0.55	0.47	0.41	0.33	0.28	
	0.30		0.83	0.74	0.66	0.59	0.50	0.43	0.38	0.31	0.26	
	0.20		0.72	0.65	0.58	0.53	0.45	0.40	0.35	0.29	0.25	
0.50	0.50	0.20	0.92	0.80	0.69	0.61	0.51	0.45	0.38	0.30	0.25	
	0.30		0.78	0.69	0.61	0.55	0.46	0.40	0.35	0.29	0.24	
	0.20		0.67	0.61	0.55	0.50	0.43	0.37	0.33	0.27	0.23	
0.30	0.50	0.20	0.85	0.73	0.63	0.56	0.46	0.40	0.35	0.28	0.24	
	0.30		0.72	0.64	0.57	0.51	0.43	0.37	0.33	0.27	0.23	
	0.20		0.63	0.57	0.51	0.47	0.40	0.35	0.31	0.26	0.22	
0.00	0.00	0.00	0.51	0.46	0.41	0.37	0.32	0.28	0.25	0.20	0.17	
Rating: 14W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.38	0.40	0.40	0.41	0.42	0.42	0.43	0.43	0.43
	0.30		0.31	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40
	0.20		0.26	0.28	0.29	0.30	0.32	0.33	0.34	0.36	0.37
0.50	0.50	0.20	0.37	0.38	0.39	0.39	0.40	0.41	0.41	0.41	0.41
	0.30		0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39
	0.20		0.26	0.27	0.28	0.29	0.31	0.32	0.33	0.35	0.36
0.30	0.50	0.20	0.36	0.37	0.37	0.38	0.39	0.39	0.39	0.40	0.40
	0.30		0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.37
	0.20		0.26	0.27	0.28	0.29	0.30	0.32	0.33	0.34	0.35
0.00	0.00	0.00	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Rating: 14W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											