

Report No.: 01

Test Time: 2016/9/5 21:06

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linearlyte

Luminaire Description: PC2 3500K LO

Luminous Length (mm): 600

Luminous Height (mm): 90

Current: 0.034 A

Power Factor: 0.936

Luminous Width (mm): 60

Voltage: 219.9 V

Power: 7.02 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 754 lm

Downward Ratio: 79%

Horizontal Diffuse Angle(50%): H172.5

Vertical Diffuse Angle(50%): V106

Luminaire Efficacy Rating (LER): 107

Max. Intensity: 160.2 cd

Total Rated Lamp Lumens: 754.0 lm

Efficiency: 100%

Upward Ratio: 21%

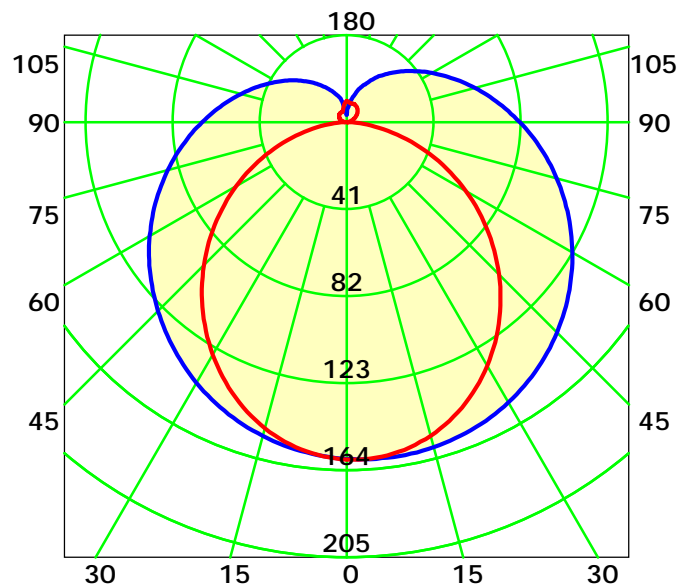
Central Intensity: 159.31 cd

Pos of Max. Intensity: H30 V7

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 139.2° 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

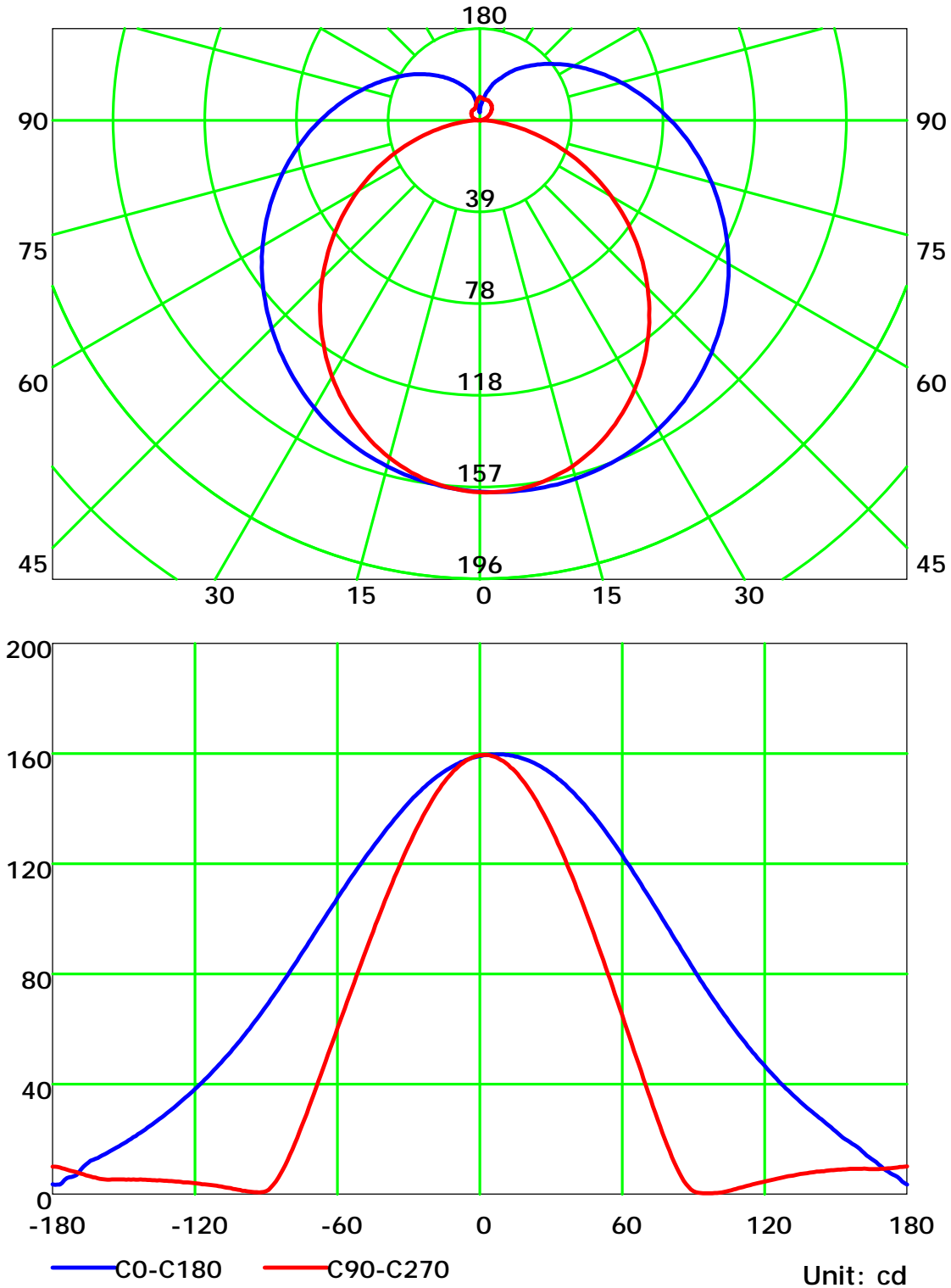
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

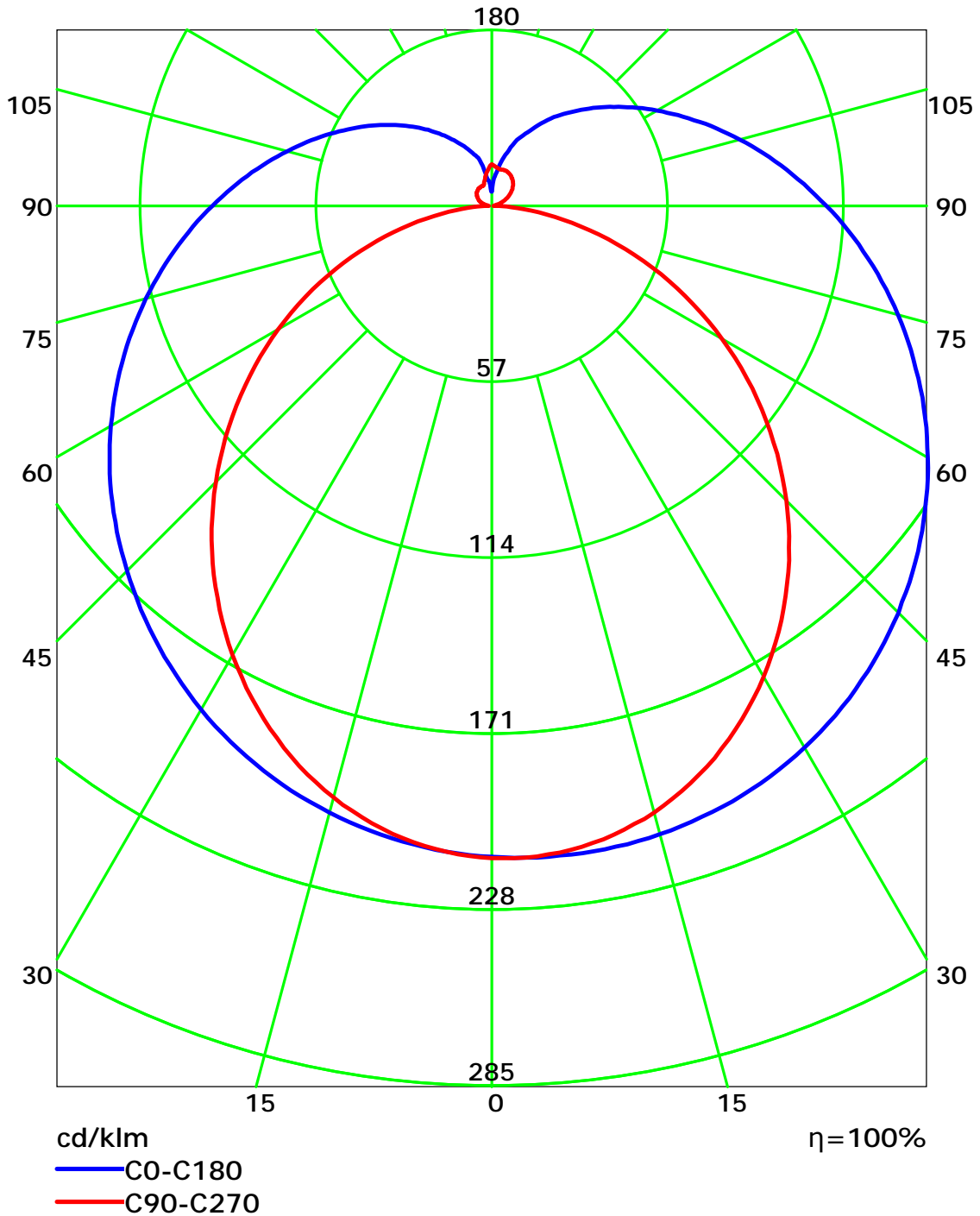
Luminous Intensity Distribution Curve



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:

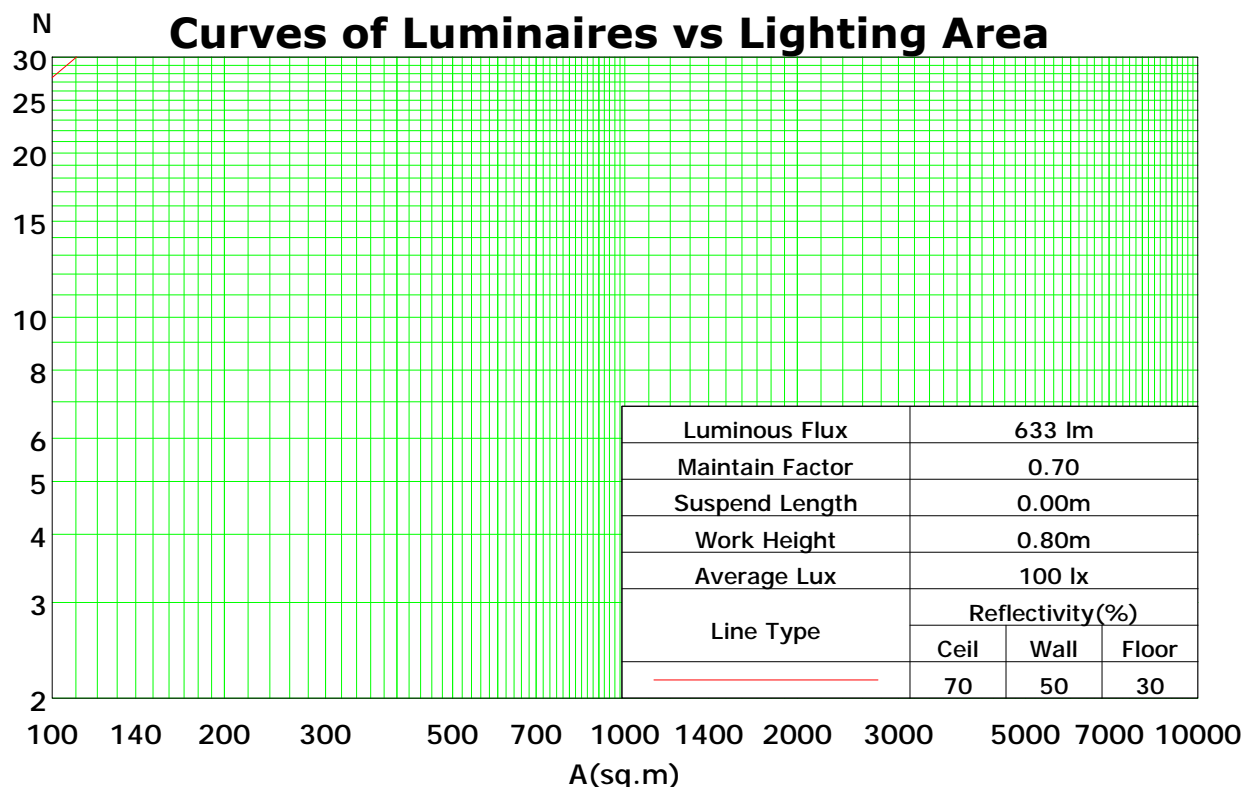
Coefficients Of Utilization - Zonal Cavity Method

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	91	91	91	83	83	83	79
1	101	95	90	85	96	91	86	82	82	79	75	75	72	69	68	66	63	60
2	91	81	74	67	86	78	71	65	71	65	60	64	59	55	58	54	51	48
3	82	71	62	55	78	67	59	53	61	55	49	56	50	46	50	46	42	39
4	75	62	53	45	71	59	51	44	54	47	41	49	43	38	45	40	36	33
5	69	55	46	39	65	53	44	37	48	41	35	44	38	33	40	35	31	28
6	63	49	40	33	60	47	39	32	43	36	30	39	33	28	36	31	27	24
7	58	44	35	29	55	43	34	28	39	32	27	36	30	25	33	27	23	21
8	54	40	32	26	51	39	31	25	36	29	24	33	27	22	30	25	21	19
9	50	37	29	23	48	35	28	22	33	26	21	30	24	20	28	23	19	17
10	47	34	26	21	45	33	25	20	30	24	19	28	22	18	26	21	17	15

Spacing Criteria (0-180): 1.39

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.44



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

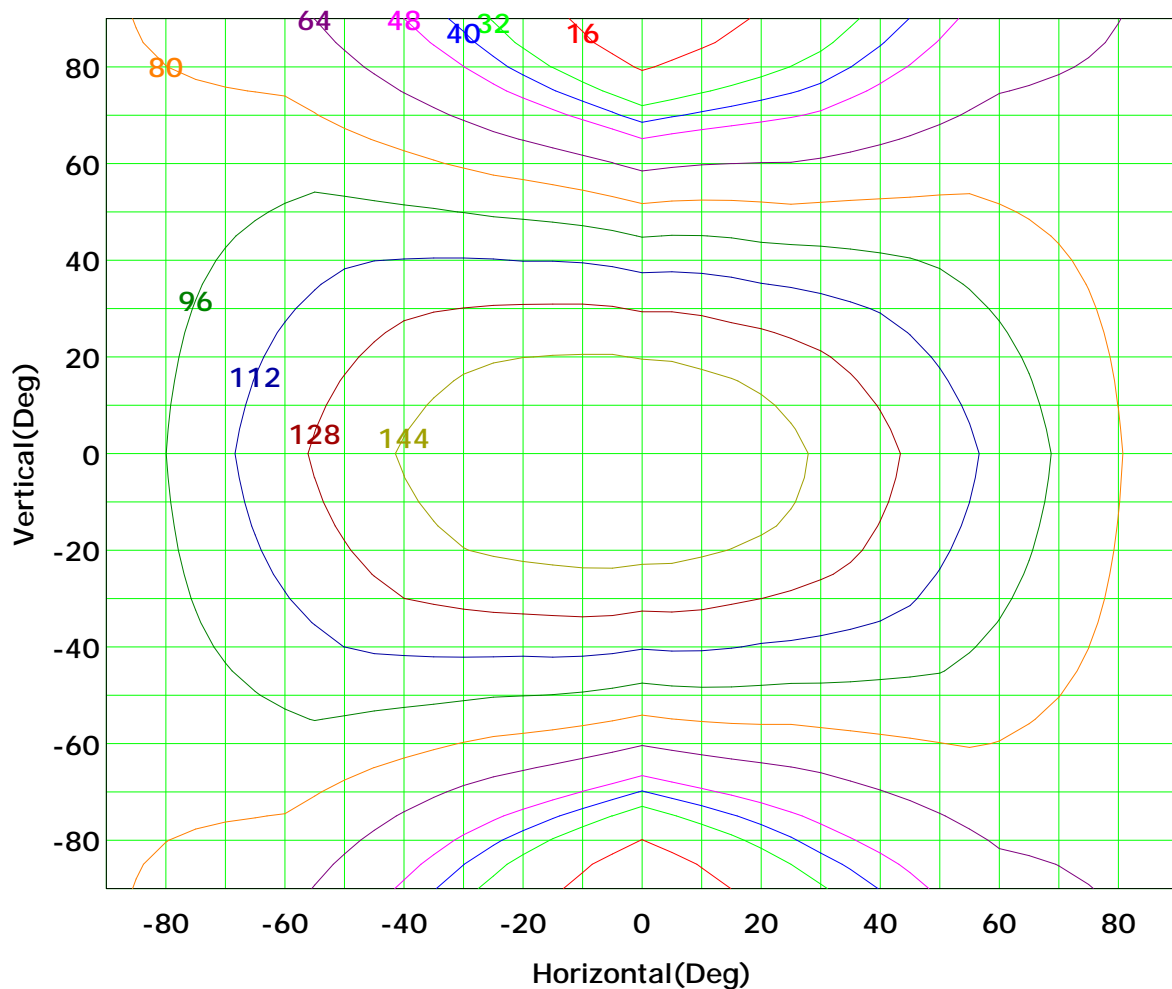
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 160 cd

(10%):	16 cd	(20%):	32 cd
(25%):	40 cd	(30%):	48 cd
(40%):	64 cd	(50%):	80 cd
(60%):	96 cd	(70%):	112 cd
(80%):	128 cd	(90%):	144 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

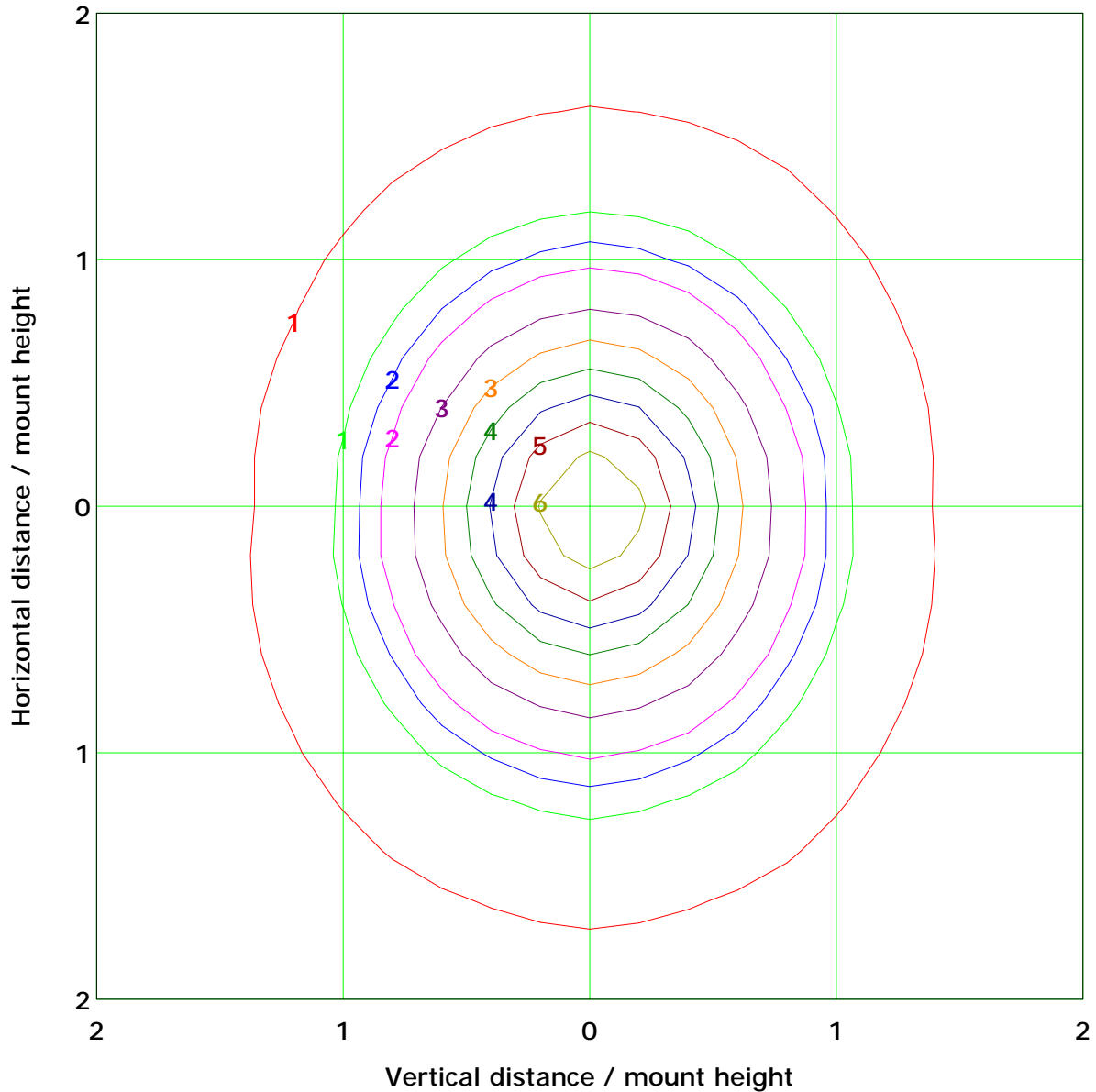
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 6.4 lx

(10%): 0.6 lx	(20%): 1.3 lx
(25%): 1.6 lx	(30%): 1.9 lx
(40%): 2.6 lx	(50%): 3.2 lx
(60%): 3.8 lx	(70%): 4.5 lx
(80%): 5.1 lx	(90%): 5.7 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

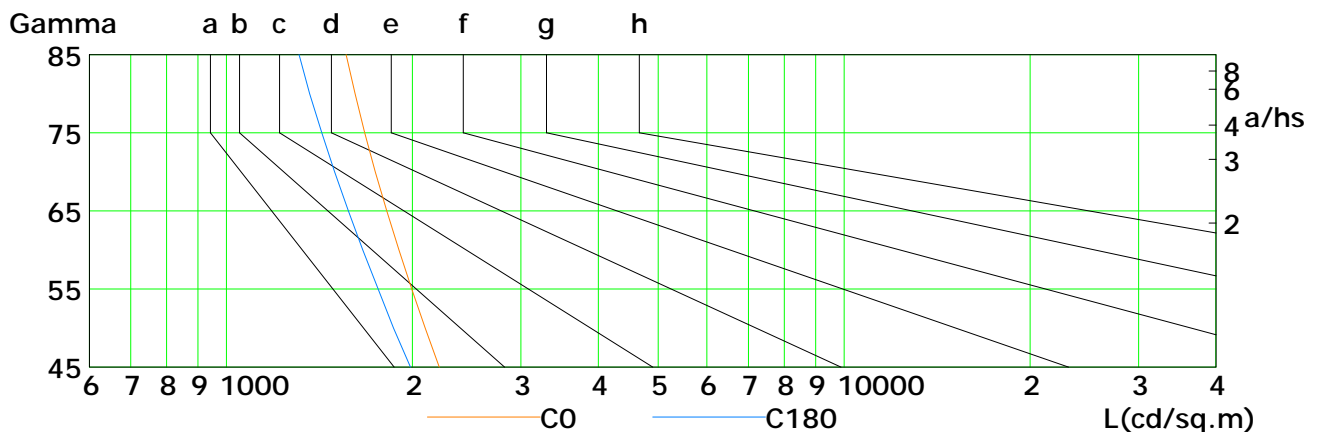
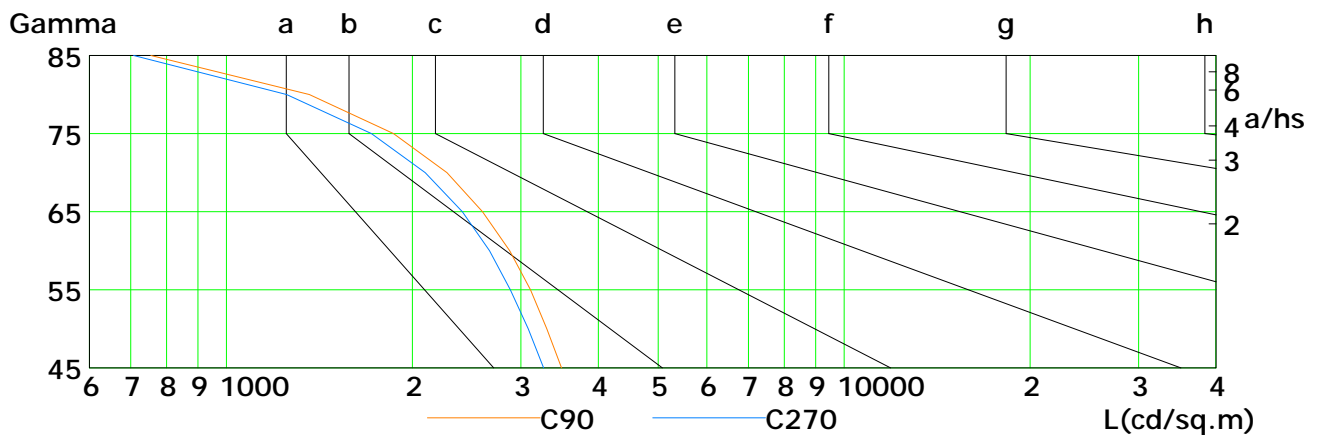
Humidity: 60%

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	2213	2100	1997	1904	1819	1743	1675	1616	1562
C90	3487	3303	3109	2874	2598	2276	1865	1362	755
C180	1986	1866	1761	1664	1576	1497	1427	1364	1311
C270	3265	3083	2882	2666	2409	2098	1717	1252	708

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

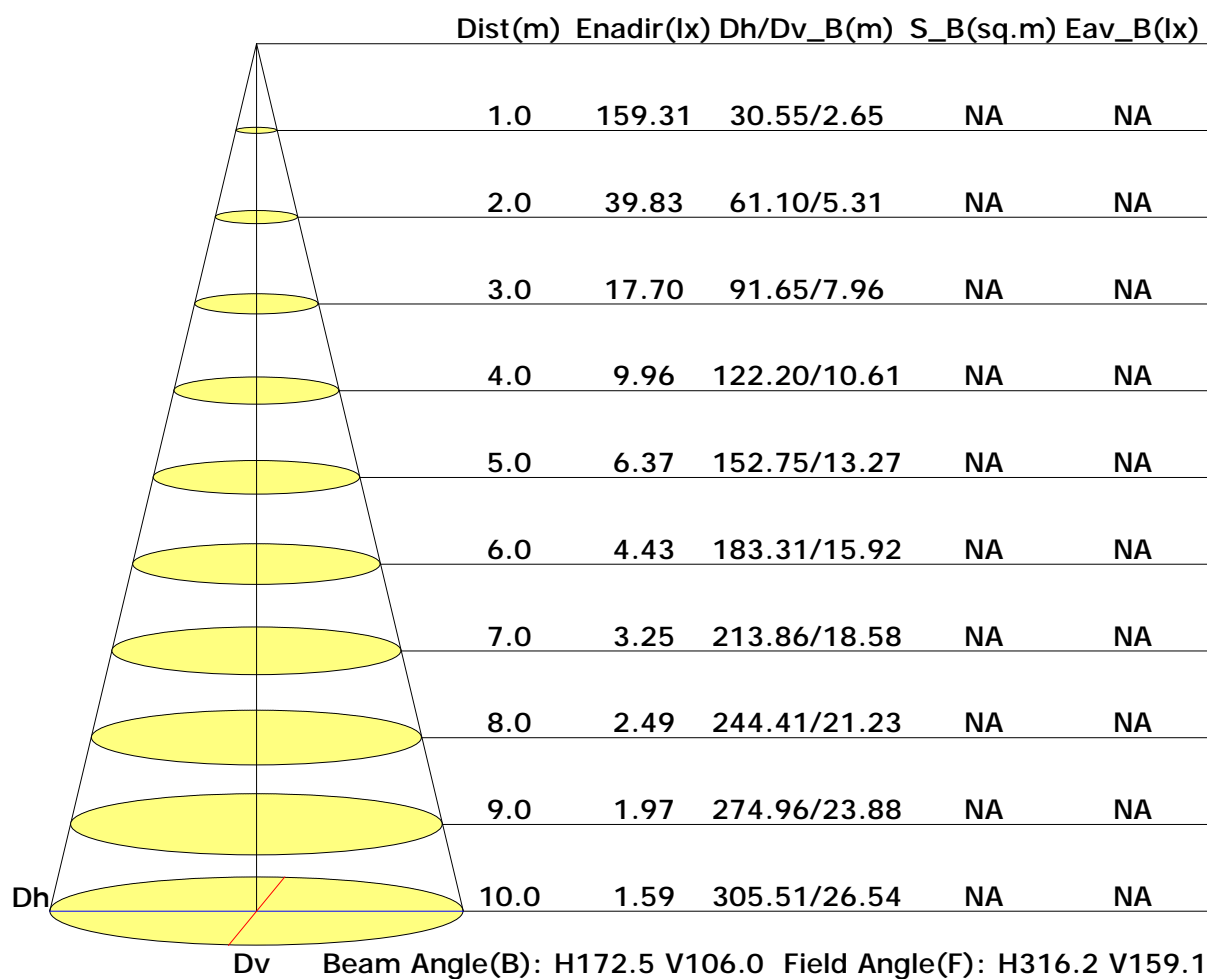
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

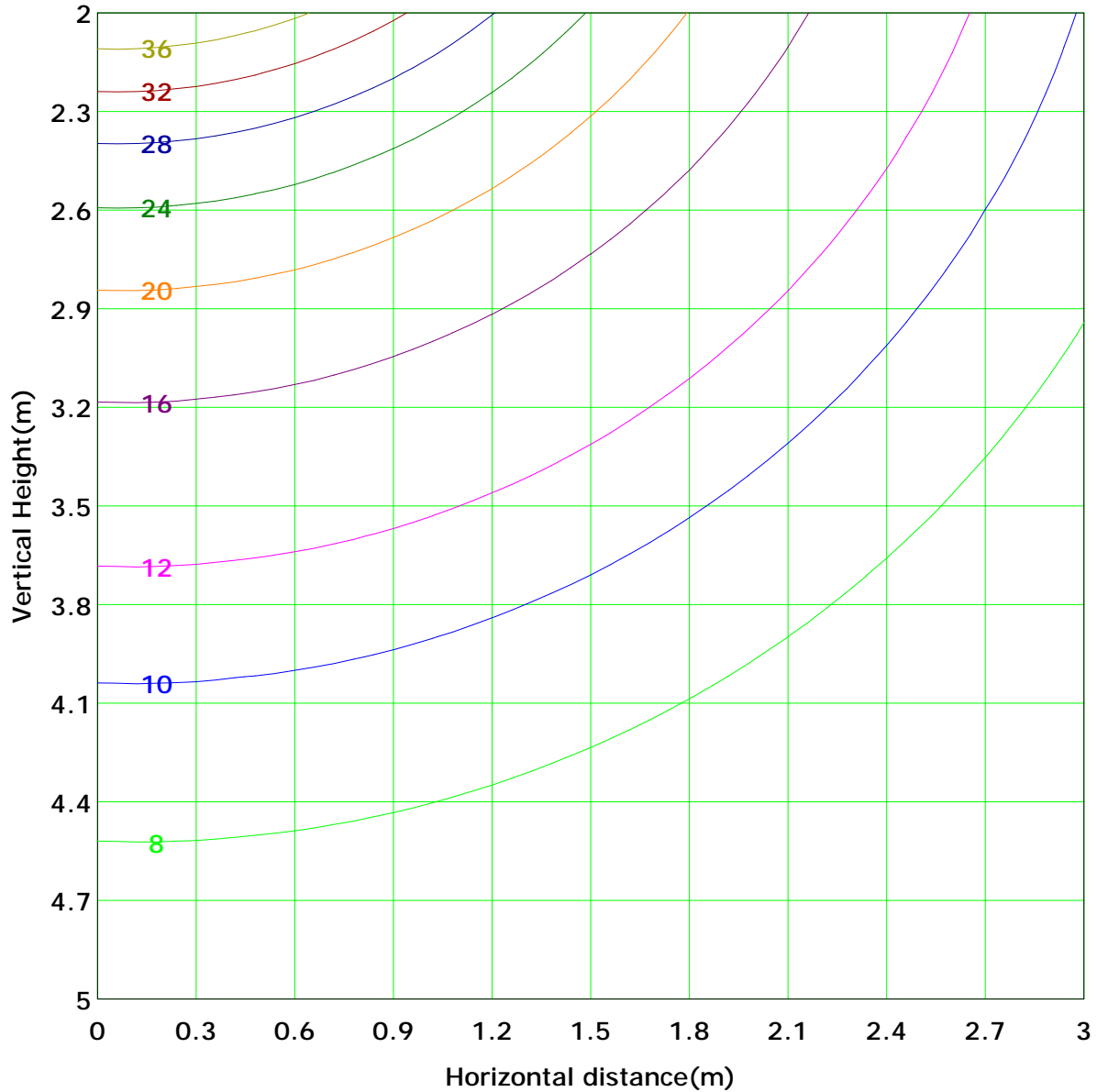
Illuminance at a Distance



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: 39.9 lx
(10%): 4.0 lx	(20%): 8.0 lx	
(25%): 10.0 lx	(30%): 12.0 lx	
(40%): 15.9 lx	(50%): 19.9 lx	
(60%): 23.9 lx	(70%): 27.9 lx	
(80%): 31.9 lx	(90%): 35.9 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

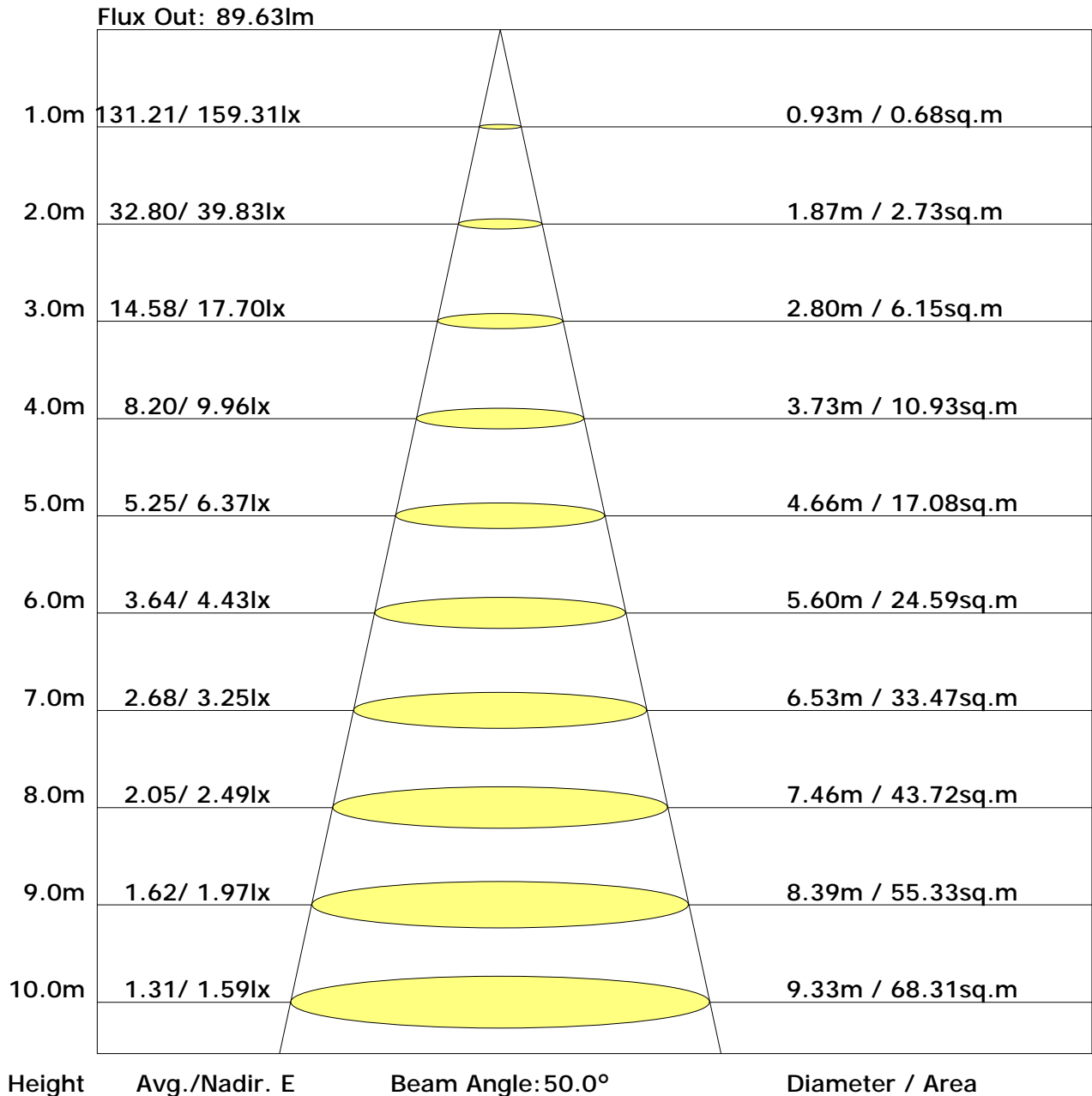
Unit: lm

		Orbit, m																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
		0.2	0.5	0.8	0.9	0.9	0.9	0.9	0.7	0.5	0.3	0.4	0.7	1.0	1.2	1.2	1.2	1.0	0.6	0.2	13.3	12.6
		0.2	0.5	0.8	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.9	1.2	1.4	1.5	1.5	1.3	1.0	0.6	0.2	17.5	17.5
		0.2	0.5	0.9	1.2	1.4	1.5	1.5	1.5	1.6	1.5	1.6	1.8	1.8	1.7	1.5	1.1	0.7	0.2	22.6	22.6	
		0.2	0.6	1.0	1.4	1.7	1.9	2.0	2.0	2.2	2.2	2.3	2.4	2.3	2.2	2.0	1.7	1.2	0.7	0.2	28.1	28.1
		0.2	0.6	1.1	1.5	1.9	2.3	2.6	2.8	2.9	3.0	3.0	3.0	2.9	2.6	2.3	1.8	1.3	0.7	0.2	33.6	33.6
		0.2	0.6	1.1	1.7	2.2	2.7	3.1	3.4	3.6	3.6	3.6	3.6	3.3	3.0	2.5	1.9	1.3	0.8	0.2	38.7	38.7
		0.2	0.7	1.2	1.8	2.4	3.0	3.5	3.9	4.1	4.2	4.2	4.0	3.8	3.3	2.7	2.1	1.4	0.8	0.2	43.1	43.1
		0.2	0.7	1.2	1.9	2.6	3.2	3.8	4.2	4.5	4.6	4.6	4.4	4.1	3.5	2.9	2.2	1.4	0.8	0.2	46.5	46.5
		0.2	0.7	1.3	2.0	2.7	3.4	4.0	4.5	4.7	4.8	4.8	4.6	4.2	3.7	3.0	2.2	1.5	0.8	0.2	48.5	48.5
		0.2	0.7	1.3	2.0	2.7	3.4	4.0	4.5	4.8	4.8	4.8	4.7	4.3	3.7	3.0	2.2	1.5	0.8	0.2	48.8	48.8
		0.2	0.7	1.3	1.9	2.6	3.3	3.9	4.4	4.6	4.7	4.7	4.5	4.1	3.6	2.9	2.2	1.5	0.8	0.2	47.4	47.4
		0.2	0.7	1.2	1.9	2.5	3.1	3.7	4.0	4.3	4.3	4.3	4.2	3.8	3.4	2.8	2.1	1.4	0.8	0.2	44.5	44.5
		0.2	0.6	1.2	1.8	2.3	2.8	3.3	3.6	3.8	3.8	3.8	3.7	3.4	3.1	2.6	2.0	1.3	0.8	0.2	40.4	40.4
		0.2	0.6	1.1	1.6	2.1	2.5	2.8	3.0	3.1	3.2	3.2	3.1	2.9	2.7	2.3	1.8	1.3	0.7	0.2	35.3	35.3
		0.2	0.6	1.0	1.5	1.8	2.1	2.3	2.4	2.4	2.4	2.5	2.4	2.4	2.3	2.0	1.7	1.2	0.7	0.2	29.7	29.7
		0.2	0.6	1.0	1.3	1.6	1.7	1.8	1.8	1.8	1.7	1.8	1.9	1.8	1.7	1.5	1.1	0.7	0.2	24.0	24.0	
		0.2	0.5	0.9	1.2	1.3	1.3	1.3	1.2	1.2	1.0	1.2	1.4	1.5	1.4	1.3	1.0	0.6	0.2	18.5	18.5	
		0.2	0.5	0.8	1.0	1.1	1.0	0.9	0.7	0.4	0.4	0.7	1.0	1.1	1.2	1.2	1.0	0.6	0.2	13.9	13.4	
		3.4	10.9	19.2	27.5	35.0	41.3	46.1	49.5	50.7	51.6	52.1	50.0	45.9	39.7	31.8	22.5	13.0	4.1	594		
		3.4	10.9	19.2	27.5	35.0	41.3	46.1	49.4	50.2	51.1	52.0	50.0	45.9	39.7	31.8	22.5	13.0	4.1		593	

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



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:

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	16.2	17.5	16.9	18.2	19.0	11.7	13.0	12.3	13.7	14.5
3H	19.1	20.4	19.8	21.0	21.9	13.0	14.2	13.7	14.9	15.7
4H	20.6	21.8	21.3	22.5	23.3	13.5	14.6	14.1	15.3	16.1
6H	22.2	23.3	22.9	24.0	24.8	13.7	14.8	14.4	15.5	16.3
8H	23.0	24.0	23.7	24.7	25.6	13.7	14.8	14.4	15.5	16.3
12H	23.8	24.8	24.5	25.5	26.4	13.7	14.7	14.4	15.4	16.3
X=4H Y=2H	16.5	17.6	17.1	18.3	19.1	12.9	14.0	13.6	14.7	15.6
3H	19.6	20.6	20.3	21.3	22.2	14.5	15.5	15.2	16.2	17.1
4H	21.2	22.2	22.0	22.9	23.8	15.1	16.0	15.8	16.7	17.6
6H	23.0	23.8	23.7	24.5	25.4	15.5	16.3	16.2	17.0	17.9
8H	23.9	24.6	24.6	25.4	26.3	15.6	16.3	16.3	17.1	18.0
12H	24.8	25.5	25.6	26.3	27.2	15.6	16.3	16.4	17.1	18.0
X=8H Y=4H	21.4	22.1	22.1	22.9	23.8	16.1	16.9	16.9	17.7	18.6
6H	23.2	23.9	24.0	24.7	25.6	16.8	17.4	17.5	18.2	19.1
8H	24.3	24.9	25.0	25.7	26.6	17.0	17.6	17.8	18.4	19.3
12H	25.4	25.9	26.2	26.7	27.7	17.2	17.7	17.9	18.5	19.4
X=12H Y=4H	21.4	22.1	22.1	22.8	23.7	16.5	17.2	17.2	18.0	18.9
6H	23.3	23.9	24.1	24.6	25.6	17.3	17.9	18.0	18.6	19.6
8H	24.4	24.9	25.1	25.7	26.6	17.6	18.1	18.4	18.9	19.9

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	0.49	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92
	0.30		0.41	0.48	0.55	0.61	0.68	0.74	0.78	0.84	0.88
	0.20		0.35	0.42	0.49	0.55	0.63	0.68	0.73	0.79	0.84
0.50	0.50	0.20	0.45	0.52	0.58	0.63	0.69	0.73	0.76	0.81	0.84
	0.30		0.38	0.45	0.52	0.56	0.63	0.68	0.72	0.77	0.80
	0.20		0.33	0.40	0.46	0.51	0.58	0.64	0.67	0.73	0.77
0.30	0.50	0.20	0.42	0.48	0.53	0.57	0.63	0.67	0.70	0.74	0.76
	0.30		0.36	0.42	0.48	0.52	0.58	0.63	0.66	0.70	0.74
	0.20		0.32	0.38	0.44	0.48	0.54	0.59	0.62	0.67	0.71
0.00	0.00	0.00	0.28	0.33	0.38	0.42	0.47	0.51	0.54	0.59	0.62
Rating: 7W 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	0.27	
	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	0.46	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		0.68	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	0.64	0.57	0.47	0.40	0.35	0.28	0.24	
	0.30		0.73	0.65	0.57	0.51	0.43	0.37	0.33	0.27	0.23	
	0.20		0.64	0.58	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: 7W 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	0.37	0.39	0.39	0.40	0.41	0.41	0.42	0.42	0.42
	0.30		0.30	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39
	0.20		0.25	0.26	0.28	0.29	0.31	0.32	0.33	0.35	0.36
0.50	0.50	0.20	0.36	0.37	0.38	0.38	0.39	0.40	0.40	0.40	0.40
	0.30		0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38
	0.20		0.25	0.26	0.27	0.28	0.30	0.31	0.32	0.34	0.35
0.30	0.50	0.20	0.35	0.36	0.36	0.37	0.38	0.38	0.38	0.39	0.39
	0.30		0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.36
	0.20		0.25	0.26	0.27	0.28	0.29	0.31	0.32	0.33	0.34
0.00	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Rating: 7W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											