

Report No.: 01

Test Time: 2016/8/31 14:17

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linearlyte

Luminaire Description: PC1 60CM 3500K LO

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.026 A

Power Factor: 0.928

Luminous Width (mm):

Voltage: 219.8 V

Power: 5.32 W

Photometric Results

CIE Class: Direct

Measurement Flux: 452.8 lm

Downward Ratio: 92%

Horizontal Diffuse Angle(50%): H129.7

Vertical Diffuse Angle(50%): V110

Luminaire Efficacy Rating (LER): 85

Max. Intensity: 130.89 cd

Total Rated Lamp Lumens: 452.8 lm

Efficiency: 100%

Upward Ratio: 8%

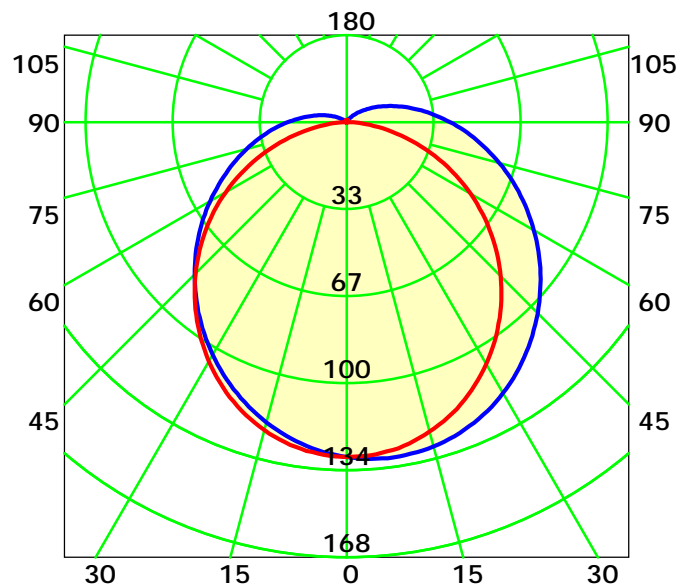
Central Intensity: 129.47 cd

Pos of Max. Intensity: H0 V7

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 119.8° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0: 1.0

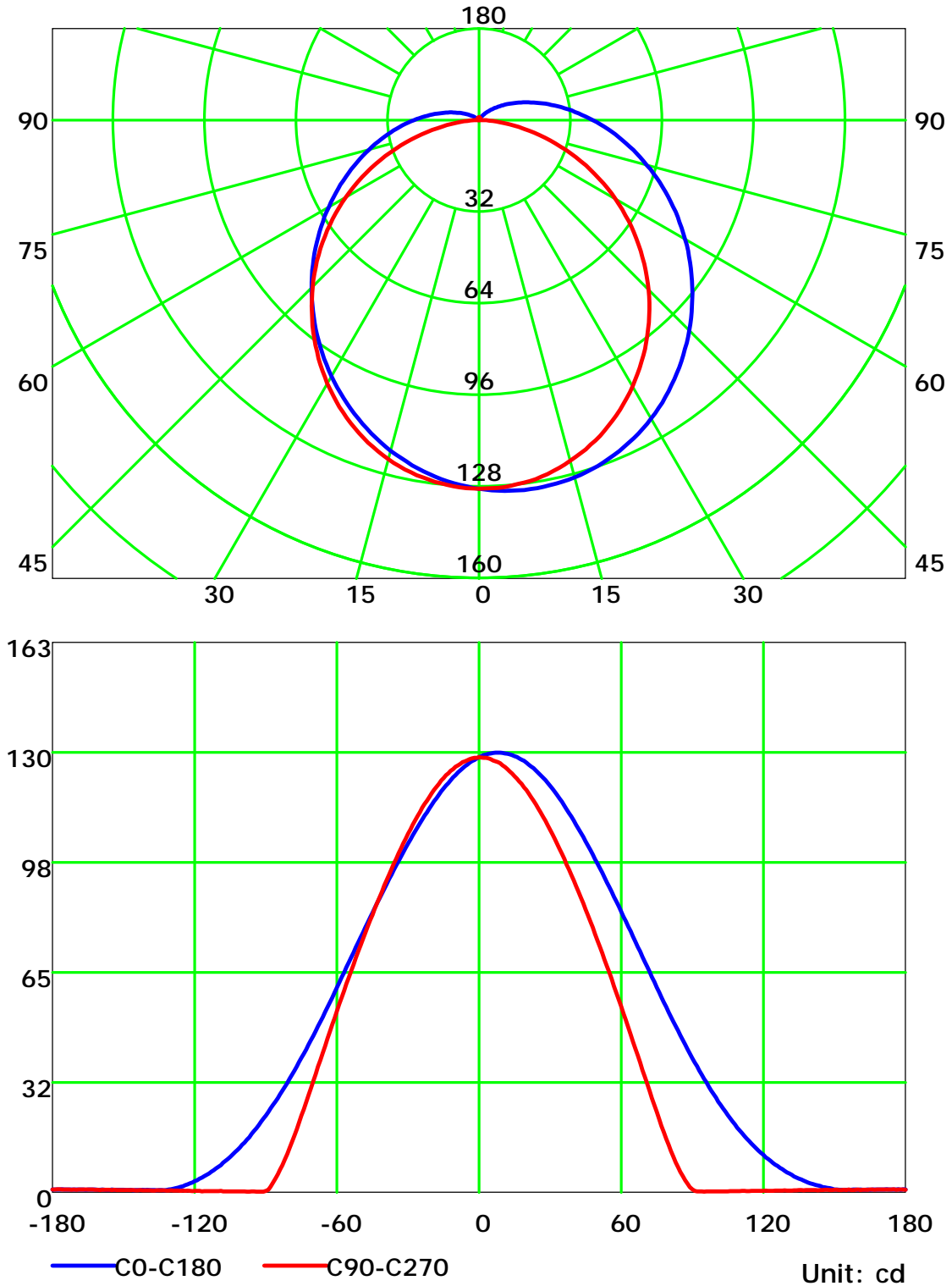
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

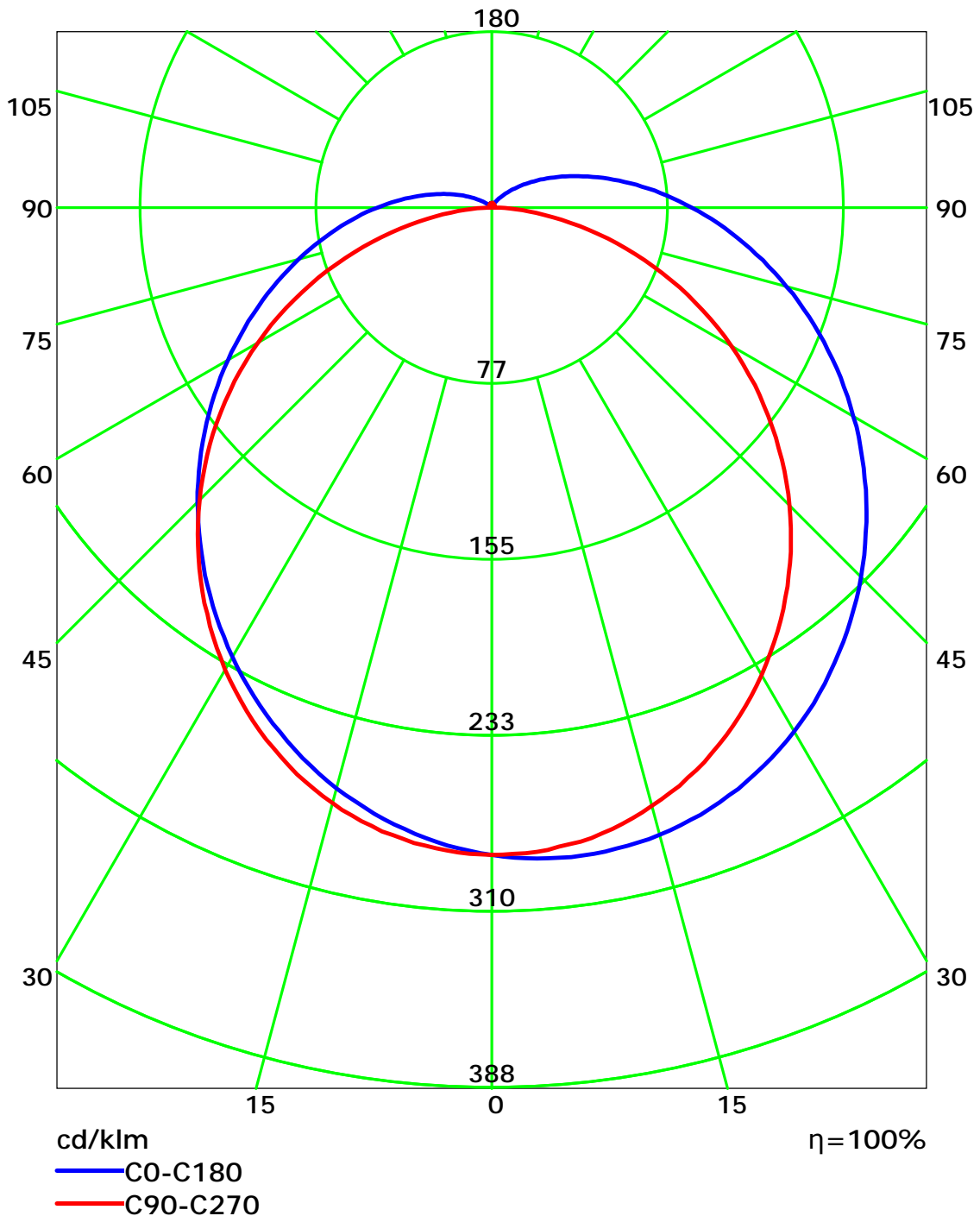
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°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: 24°C
Operator:

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

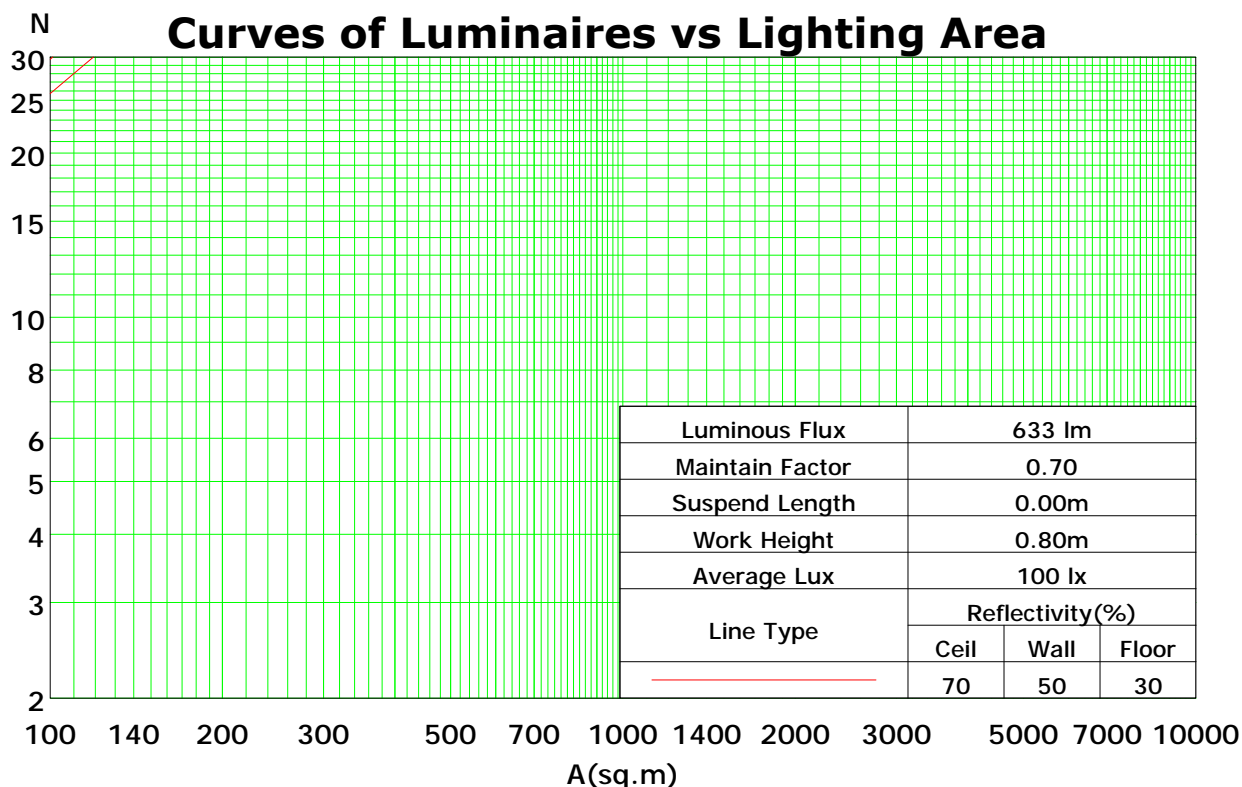
Coefficients Of Utilization - Zonal Cavity Method

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	105	99	94	90	101	96	92	88	91	87	83	85	82	79	80	78	76	73
2	95	86	78	72	91	83	76	70	78	72	67	74	69	65	70	66	62	59
3	86	75	66	59	83	72	64	58	68	61	56	64	59	54	61	56	52	49
4	78	66	56	49	75	64	55	49	60	53	47	57	51	46	54	49	44	42
5	72	59	49	42	69	57	48	42	54	46	40	51	45	39	49	43	38	36
6	66	53	43	37	64	51	42	36	49	41	35	46	39	34	44	38	33	31
7	62	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	30	27
8	57	43	35	29	55	42	34	28	40	33	28	39	32	27	37	31	26	24
9	53	40	31	26	52	39	31	25	37	30	25	35	29	24	34	28	24	22
10	50	37	29	23	48	36	28	23	34	27	22	33	27	22	32	26	22	20

Spacing Criteria (0-180): 1.29

Spacing Criteria (90-270): 1.23

Spacing Criteria (Diagonal): 1.39



C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

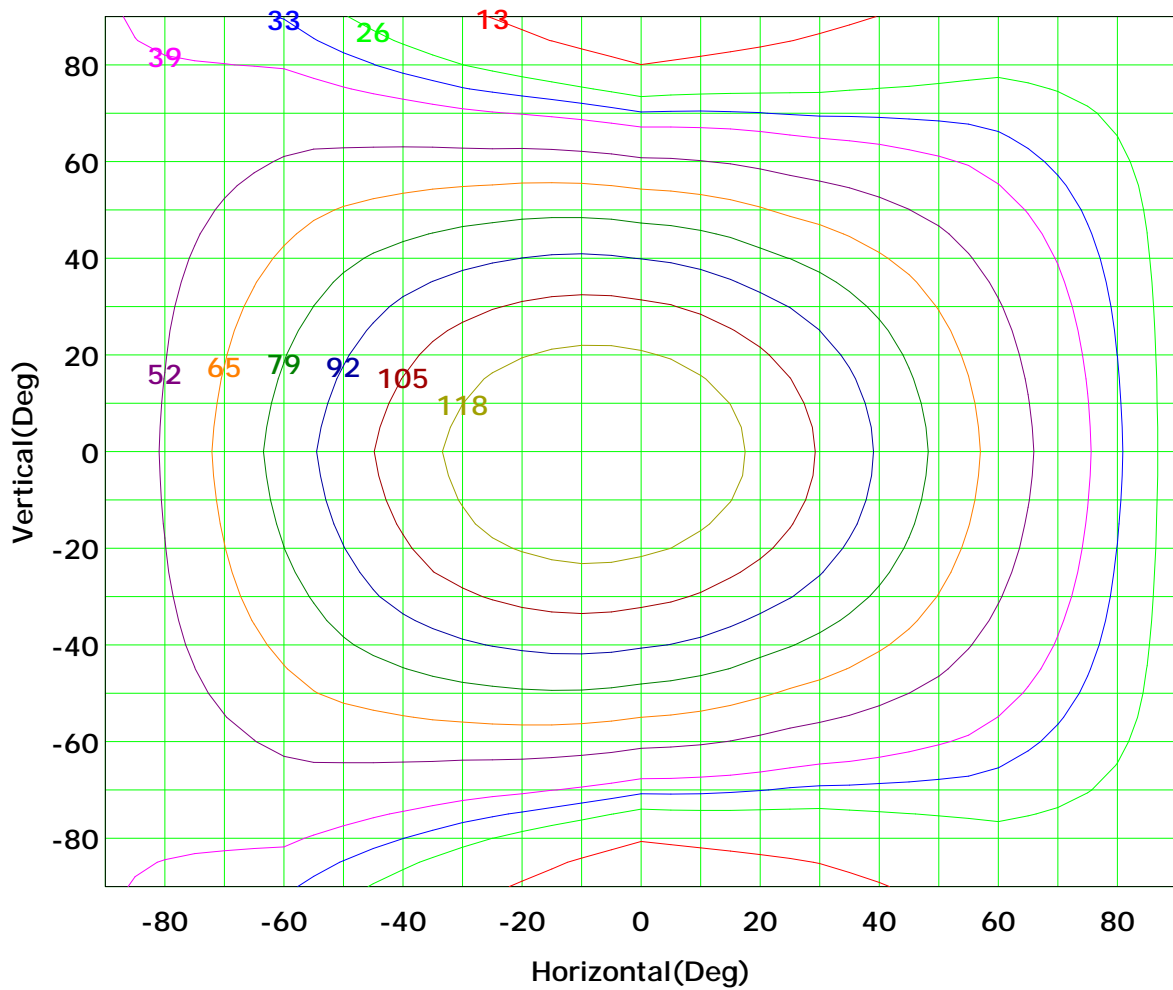
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 131 cd

(10%):	13 cd	(20%):	26 cd
(25%):	33 cd	(30%):	39 cd
(40%):	52 cd	(50%):	65 cd
(60%):	79 cd	(70%):	92 cd
(80%):	105 cd	(90%):	118 cd

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

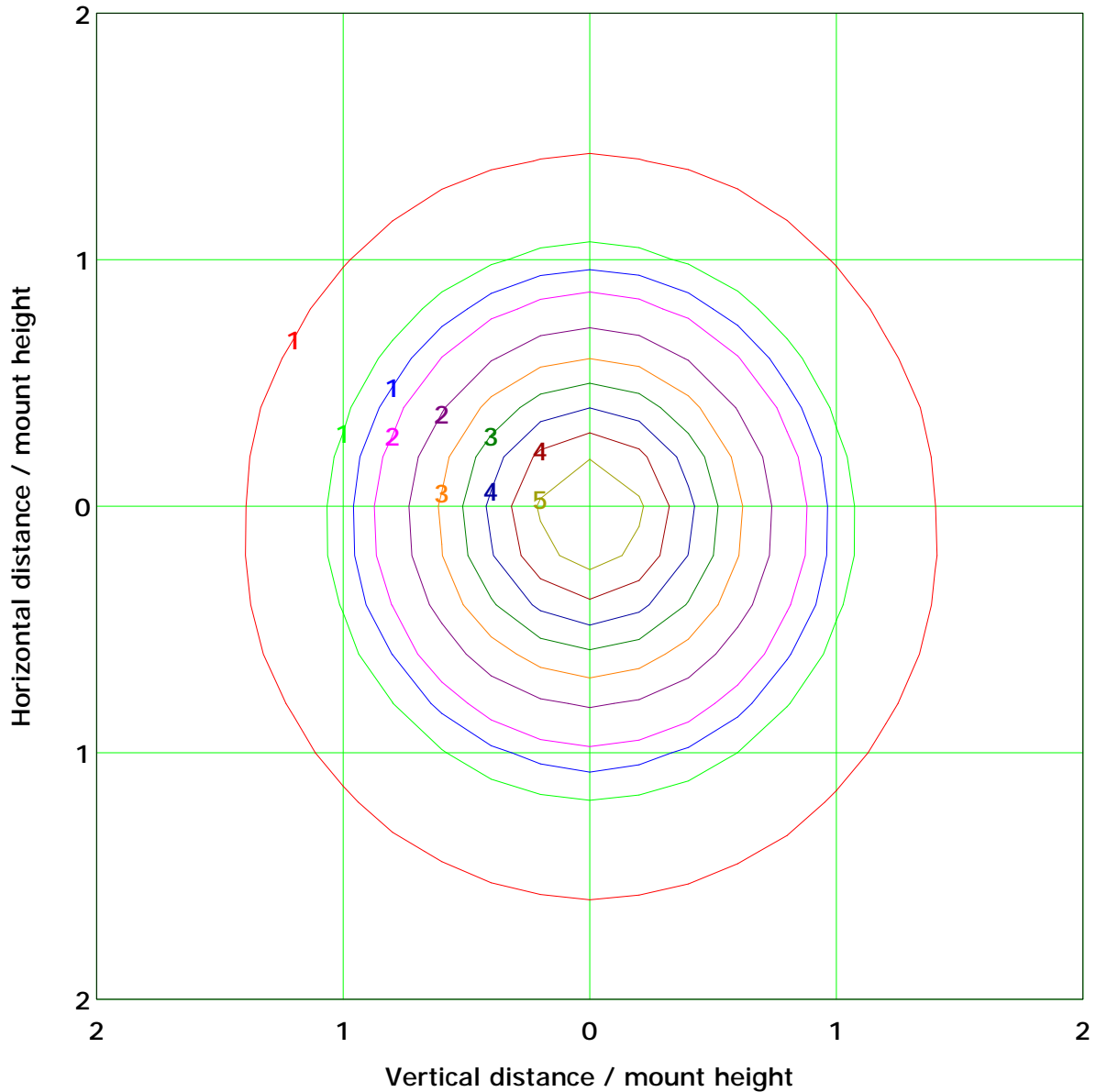
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 5.2 lx

(10%): 0.5 lx	(20%): 1.0 lx
(25%): 1.3 lx	(30%): 1.6 lx
(40%): 2.1 lx	(50%): 2.6 lx
(60%): 3.1 lx	(70%): 3.6 lx
(80%): 4.2 lx	(90%): 4.7 lx

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

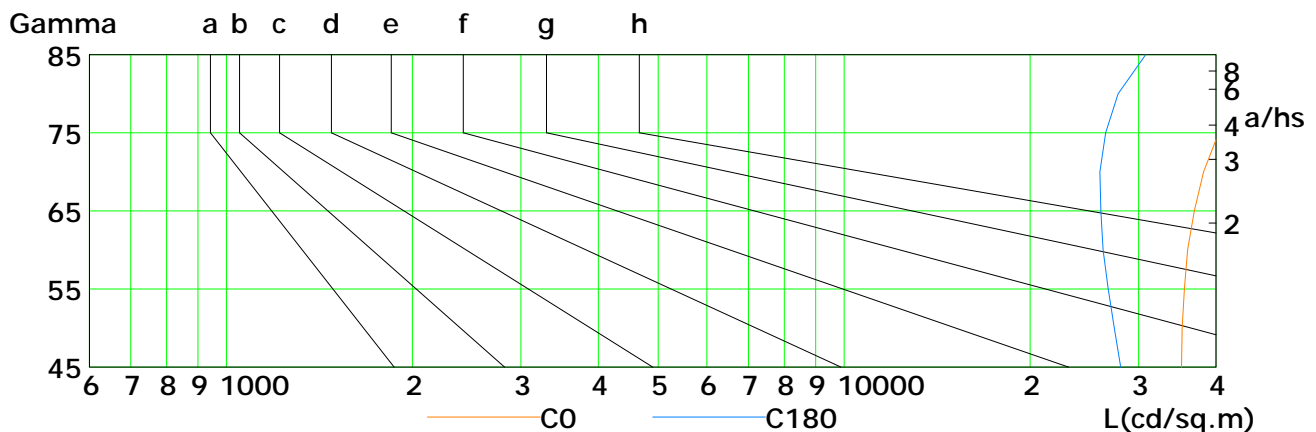
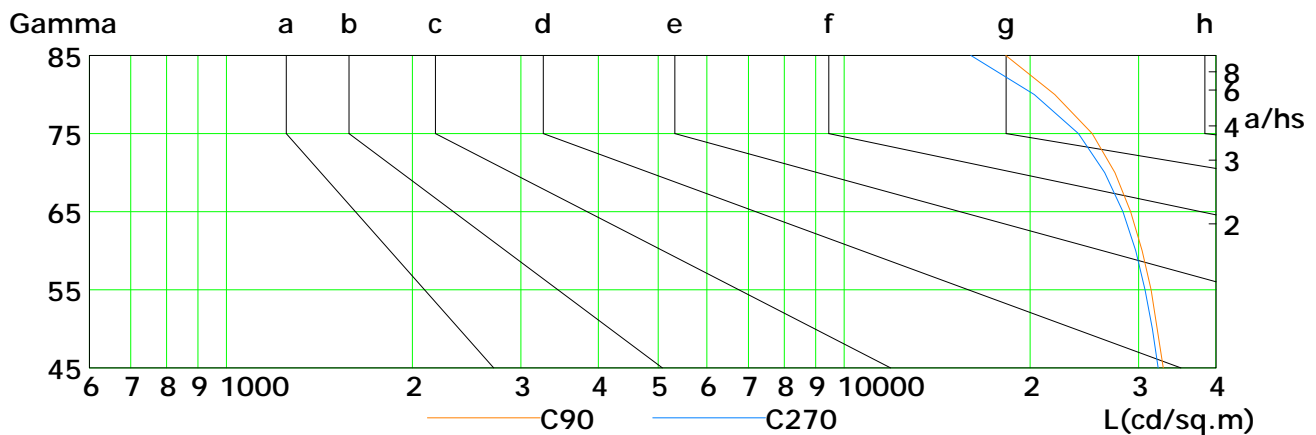
Humidity: 60%

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	35177	35282	35554	36006	36907	38215	40396	44136	51323
C90	32885	32151	31407	30377	29102	27452	25216	21934	18272
C180	28042	27383	26784	26280	26036	25971	26514	27796	30785
C270	32253	31572	30697	29652	28299	26423	23970	20331	16051

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

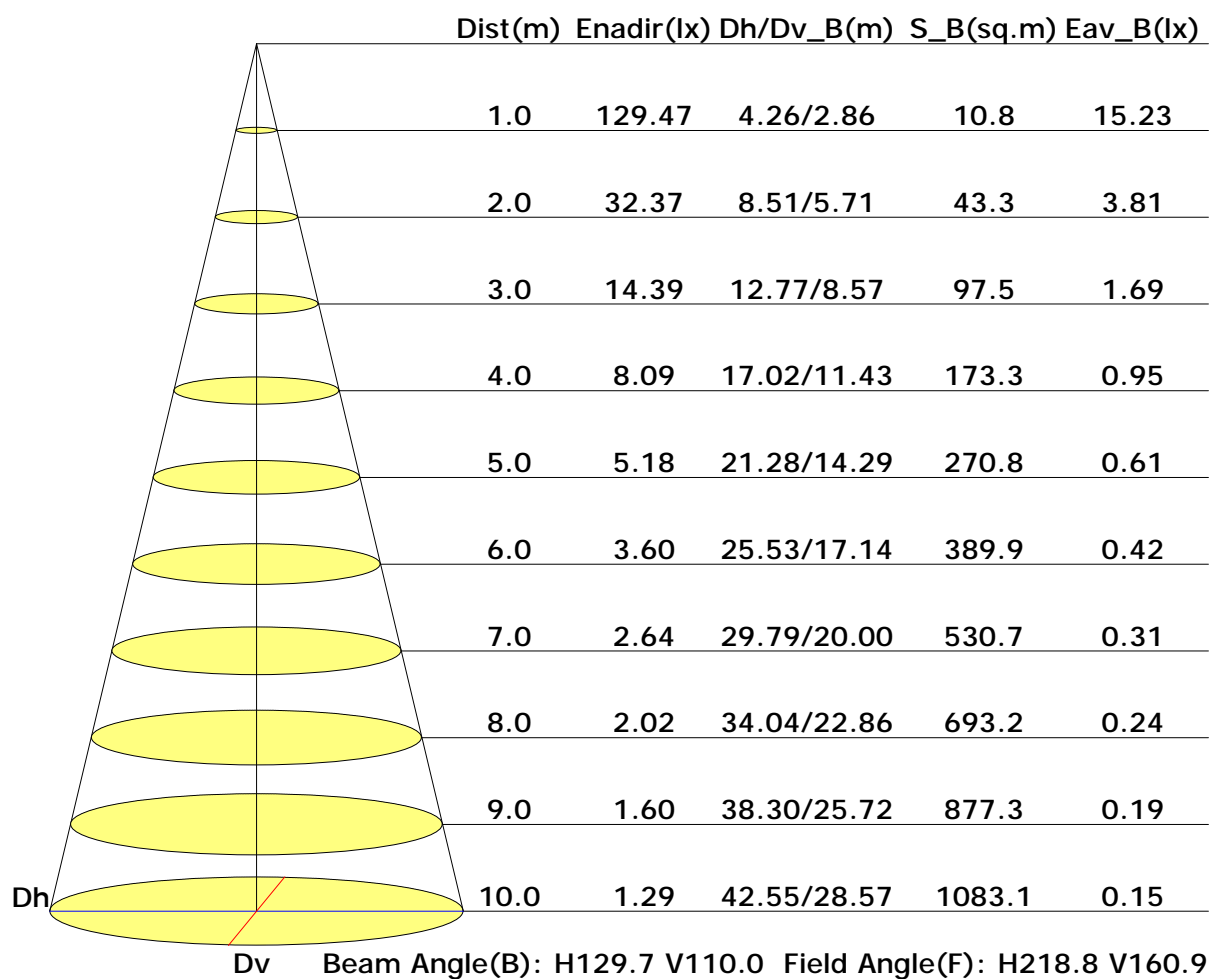
Test Device: GPM-1800B

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: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

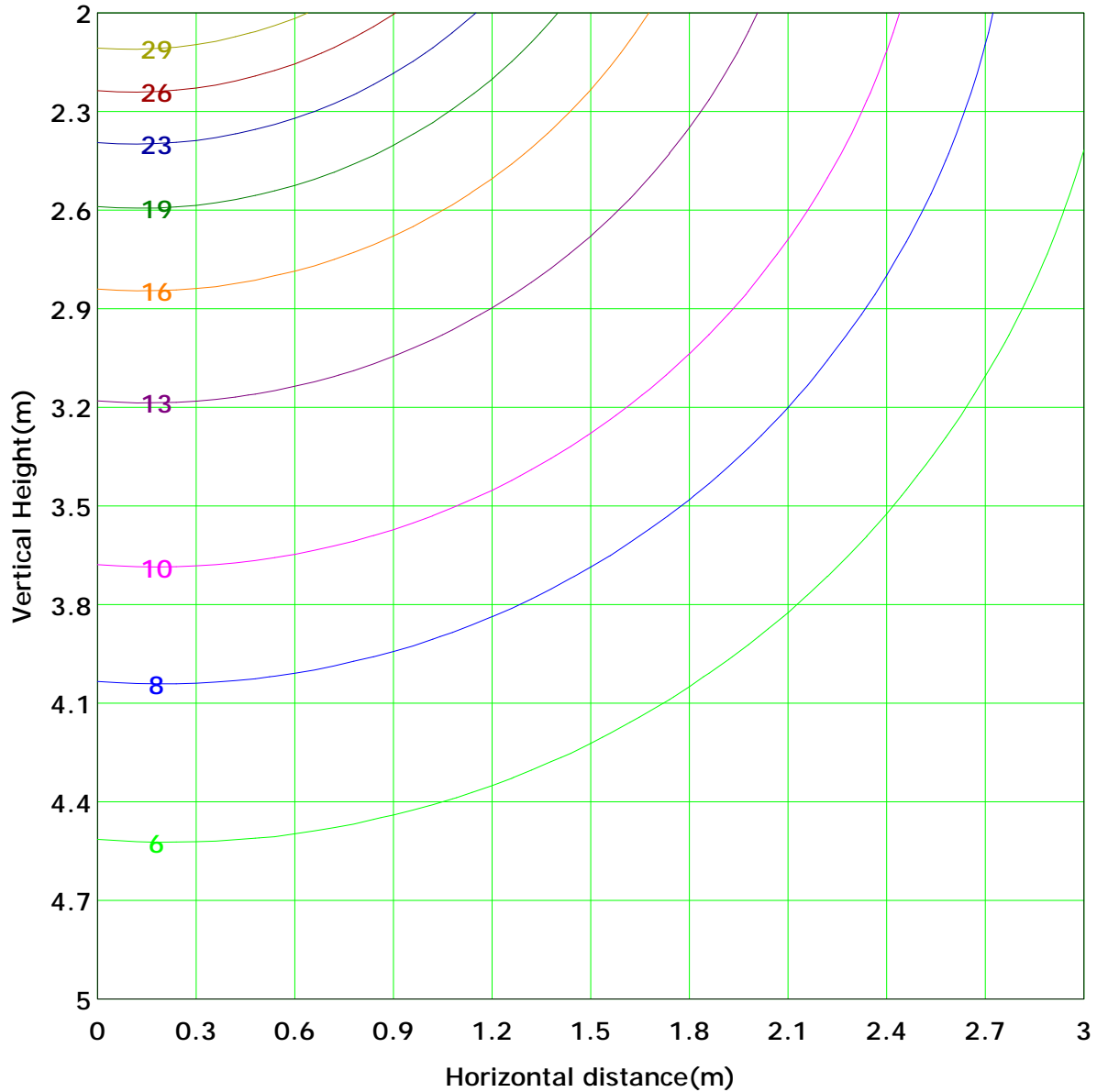
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 32.5 lx
(10%): 3.2 lx	(20%): 6.5 lx	
(25%): 8.1 lx	(30%): 9.7 lx	
(40%): 13.0 lx	(50%): 16.2 lx	
(60%): 19.5 lx	(70%): 22.7 lx	
(80%): 26.0 lx	(90%): 29.2 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

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

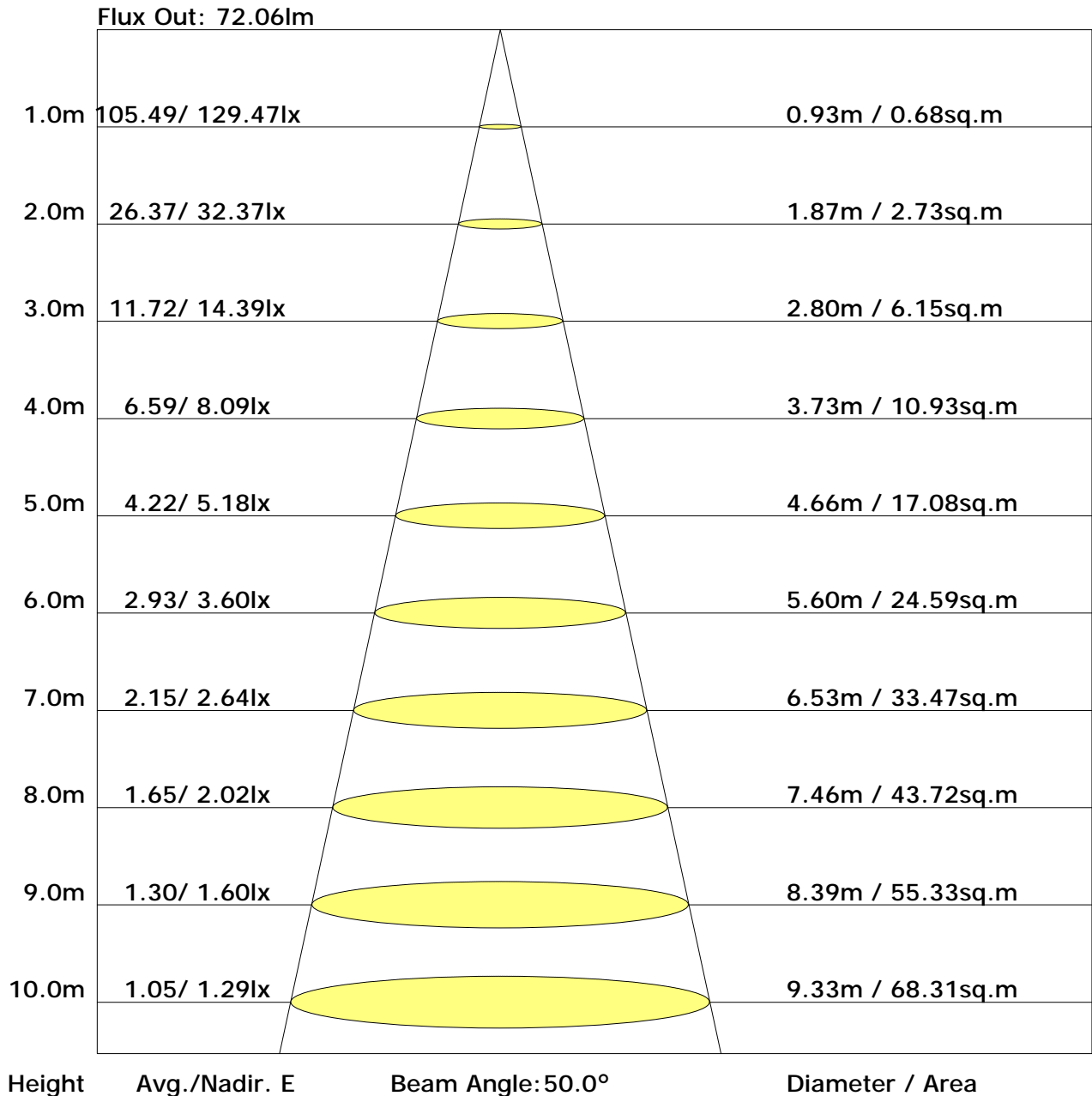
Area Flux Table

Unit: lm																				
Vertical plane																				
-90	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.5	0.3	0.1	6.3	5.4
-80	0.1	0.2	0.3	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.9	0.9	0.8	0.7	0.5	0.3	0.1	10.3	10.3
-70	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.3	1.4	1.4	1.3	1.2	1.1	0.9	0.6	0.4	0.1	15.1	15.1
-60	0.1	0.2	0.5	0.7	1.0	1.3	1.5	1.8	1.9	2.0	2.0	1.8	1.6	1.3	1.0	0.7	0.4	0.1	20.0	20.0
-50	0.1	0.3	0.5	0.9	1.2	1.6	2.0	2.3	2.5	2.5	2.3	2.0	1.6	1.2	0.8	0.4	0.1	24.6	24.6	
-40	0.1	0.3	0.6	1.0	1.4	1.9	2.3	2.7	3.0	3.0	2.9	2.7	2.3	1.8	1.3	0.8	0.4	0.1	28.8	28.8
-30	0.1	0.3	0.6	1.1	1.6	2.1	2.7	3.1	3.4	3.5	3.3	3.0	2.6	2.0	1.4	0.9	0.5	0.1	32.2	32.2
-20	0.1	0.3	0.7	1.1	1.7	2.3	2.9	3.4	3.7	3.8	3.6	3.3	2.7	2.1	1.5	0.9	0.5	0.1	34.7	34.7
-10	0.1	0.3	0.7	1.2	1.8	2.4	3.0	3.5	3.8	3.9	3.8	3.4	2.9	2.2	1.6	1.0	0.5	0.1	36.1	36.1
0	0.1	0.3	0.7	1.2	1.8	2.4	3.0	3.5	3.8	3.9	3.8	3.4	2.9	2.2	1.6	1.0	0.5	0.1	36.2	36.2
10	0.1	0.3	0.7	1.2	1.7	2.3	2.9	3.4	3.7	3.8	3.6	3.3	2.8	2.2	1.5	0.9	0.5	0.1	34.9	34.9
20	0.1	0.3	0.6	1.1	1.6	2.2	2.7	3.1	3.4	3.5	3.4	3.1	2.6	2.0	1.4	0.9	0.5	0.1	32.5	32.5
30	0.1	0.3	0.6	1.0	1.4	1.9	2.4	2.7	3.0	3.1	3.0	2.7	2.3	1.9	1.3	0.8	0.4	0.1	29.1	29.1
40	0.1	0.3	0.5	0.9	1.2	1.6	2.0	2.3	2.5	2.6	2.5	2.3	2.0	1.6	1.2	0.8	0.4	0.1	25.0	25.0
50	0.1	0.2	0.5	0.7	1.0	1.3	1.5	1.8	2.0	2.0	1.9	1.6	1.4	1.1	0.9	0.7	0.4	0.1	20.3	20.3
60	0.1	0.2	0.4	0.6	0.8	0.9	1.1	1.3	1.4	1.4	1.4	1.4	1.3	1.1	0.9	0.6	0.4	0.1	15.4	15.4
70	0.1	0.2	0.3	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.9	0.7	0.6	0.3	0.1	10.6	10.6
80	0.1	0.2	0.3	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.4	0.6	0.6	0.6	0.6	0.5	0.3	0.1	6.5	5.6
90	1.3	4.6	9.2	14.9	21.1	27.3	33.2	38.1	41.2	42.5	41.8	38.7	33.7	27.5	20.6	13.6	7.3	2.1	419	
Flux(T)	1.3	4.6	9.2	14.9	21.1	27.2	32.9	37.7	40.8	42.1	41.6	38.7	33.7	27.5	20.6	13.6	7.3	2.1		417
Flux(E)	1.3	4.6	9.2	14.9	21.1	27.2	32.9	37.7	40.8	42.1	41.6	38.7	33.7	27.5	20.6	13.6	7.3	2.1		417
Horizontal plane																				
-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)

C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°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: 24°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	27.7	29.3	28.2	29.7	30.2	25.3	26.8	25.8	27.3	27.8
3H	30.5	31.9	31.0	32.3	32.9	27.0	28.4	27.4	28.8	29.4
4H	31.8	33.2	32.3	33.7	34.2	27.5	28.9	28.1	29.4	29.9
6H	33.3	34.5	33.8	35.0	35.6	27.9	29.2	28.5	29.7	30.3
8H	34.1	35.3	34.6	35.8	36.4	28.0	29.2	28.6	29.8	30.3
12H	34.9	36.1	35.5	36.6	37.2	28.1	29.2	28.6	29.8	30.4
X=4H Y=2H	28.2	29.6	28.8	30.1	30.6	26.2	27.5	26.7	28.0	28.5
3H	31.2	32.4	31.8	32.9	33.5	28.1	29.2	28.6	29.8	30.3
4H	32.8	33.8	33.3	34.4	35.0	28.8	29.9	29.4	30.4	31.0
6H	34.4	35.4	35.0	35.9	36.5	29.4	30.3	30.0	30.9	31.5
8H	35.3	36.2	35.9	36.8	37.4	29.6	30.4	30.1	31.0	31.6
12H	36.3	37.1	36.9	37.7	38.4	29.7	30.5	30.3	31.1	31.7
X=8H Y=4H	33.1	33.9	33.6	34.5	35.1	29.6	30.5	30.2	31.0	31.7
6H	34.9	35.7	35.5	36.3	36.9	30.3	31.1	31.0	31.7	32.4
8H	36.0	36.7	36.6	37.3	37.9	30.7	31.3	31.3	31.9	32.6
12H	37.2	37.8	37.8	38.4	39.1	30.9	31.5	31.5	32.1	32.8
X=12H Y=4H	33.1	33.9	33.7	34.5	35.1	29.8	30.6	30.4	31.2	31.8
6H	35.0	35.7	35.6	36.3	37.0	30.7	31.4	31.3	32.0	32.7
8H	36.1	36.7	36.7	37.3	38.1	31.1	31.7	31.7	32.3	33.0

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
 Test Lab: ACOLYTE
 Test Type: TYPE C
 Temperature: 24°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 = 1.25								
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	0.51	0.61	0.68	0.73	0.81	0.86	0.89	0.94	0.98
	0.30		0.43	0.53	0.60	0.66	0.74	0.79	0.84	0.89	0.93
	0.20		0.37	0.47	0.54	0.60	0.68	0.74	0.79	0.85	0.89
0.50	0.50	0.20	0.49	0.58	0.65	0.69	0.76	0.81	0.84	0.89	0.92
	0.30		0.42	0.51	0.58	0.63	0.70	0.76	0.80	0.85	0.88
	0.20		0.36	0.46	0.52	0.58	0.65	0.71	0.75	0.81	0.85
0.30	0.50	0.20	0.47	0.55	0.61	0.66	0.72	0.77	0.80	0.84	0.87
	0.30		0.40	0.49	0.56	0.60	0.67	0.72	0.76	0.81	0.84
	0.20		0.36	0.44	0.51	0.56	0.63	0.68	0.72	0.78	0.81
0.00	0.00	0.00	0.33	0.41	0.47	0.52	0.58	0.63	0.67	0.72	0.75
<p>Rating:5W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25								
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	1.04	0.87	0.76	0.67	0.54	0.46	0.40	0.32	0.26
	0.30		0.87	0.75	0.66	0.59	0.49	0.42	0.37	0.30	0.25
	0.20		0.74	0.65	0.58	0.53	0.45	0.39	0.35	0.28	0.24
0.50	0.50	0.20	0.99	0.83	0.72	0.63	0.52	0.46	0.38	0.30	0.25
	0.30		0.84	0.72	0.63	0.57	0.47	0.40	0.35	0.28	0.24
	0.20		0.72	0.63	0.57	0.51	0.43	0.38	0.33	0.27	0.23
0.30	0.50	0.20	0.94	0.79	0.68	0.60	0.49	0.41	0.36	0.28	0.24
	0.30		0.81	0.69	0.61	0.54	0.45	0.39	0.34	0.27	0.23
	0.20		0.71	0.62	0.55	0.50	0.42	0.36	0.32	0.26	0.22
0.00	0.00	0.00	0.60	0.52	0.46	0.41	0.34	0.29	0.26	0.21	0.18
Rating:5W 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 = 1.25								
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	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.29
	0.30		0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.25	0.26
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23
0.50	0.50	0.20	0.23	0.24	0.25	0.26	0.27	0.27	0.27	0.28	0.28
	0.30		0.16	0.18	0.19	0.20	0.21	0.23	0.23	0.24	0.25
	0.20		0.12	0.13	0.14	0.16	0.17	0.19	0.20	0.21	0.22
0.30	0.50	0.20	0.22	0.24	0.24	0.25	0.26	0.26	0.26	0.27	0.27
	0.30		0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24
	0.20		0.12	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.22
0.00	0.00	0.00	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											