

Report No.: 01

Test Time: 2016/9/6 14:32

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LINEARLYTE

Luminaire Description: PC3 3500K LO

Luminous Length (mm): 600

Luminous Height (mm): 90

Current: 0.068 A

Power Factor: 0.929

Luminous Width (mm): 60

Voltage: 219.9 V

Power: 13.84 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 1417 lm

Downward Ratio: 76%

Horizontal Diffuse Angle(50%): H186.3

Vertical Diffuse Angle(50%): V105.1

Luminaire Efficacy Rating (LER): 102

Max. Intensity: 283.99 cd

Total Rated Lamp Lumens: 1417.0 lm

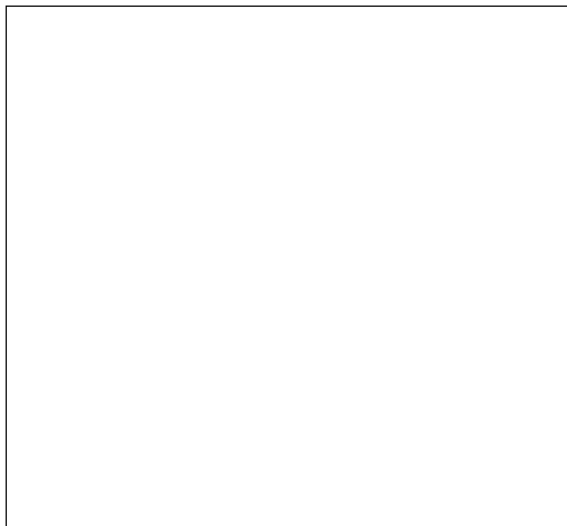
Efficiency: 100%

Upward Ratio: 24%

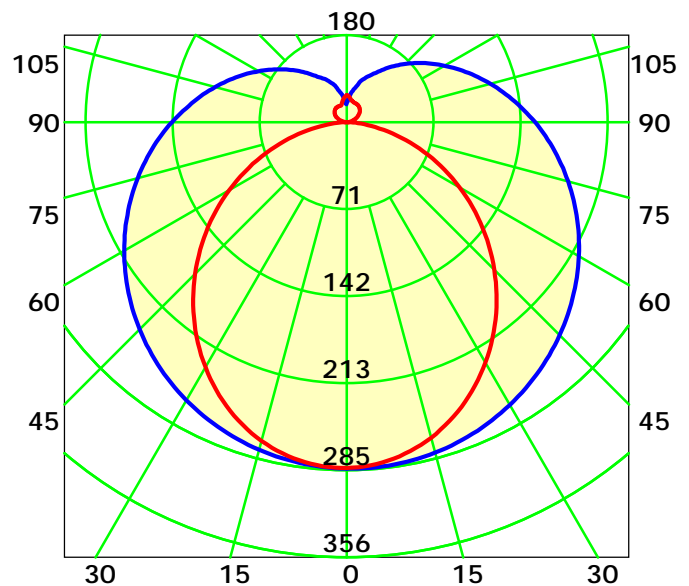
Central Intensity: 283.74 cd

Pos of Max. Intensity: H210 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 145.7° 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

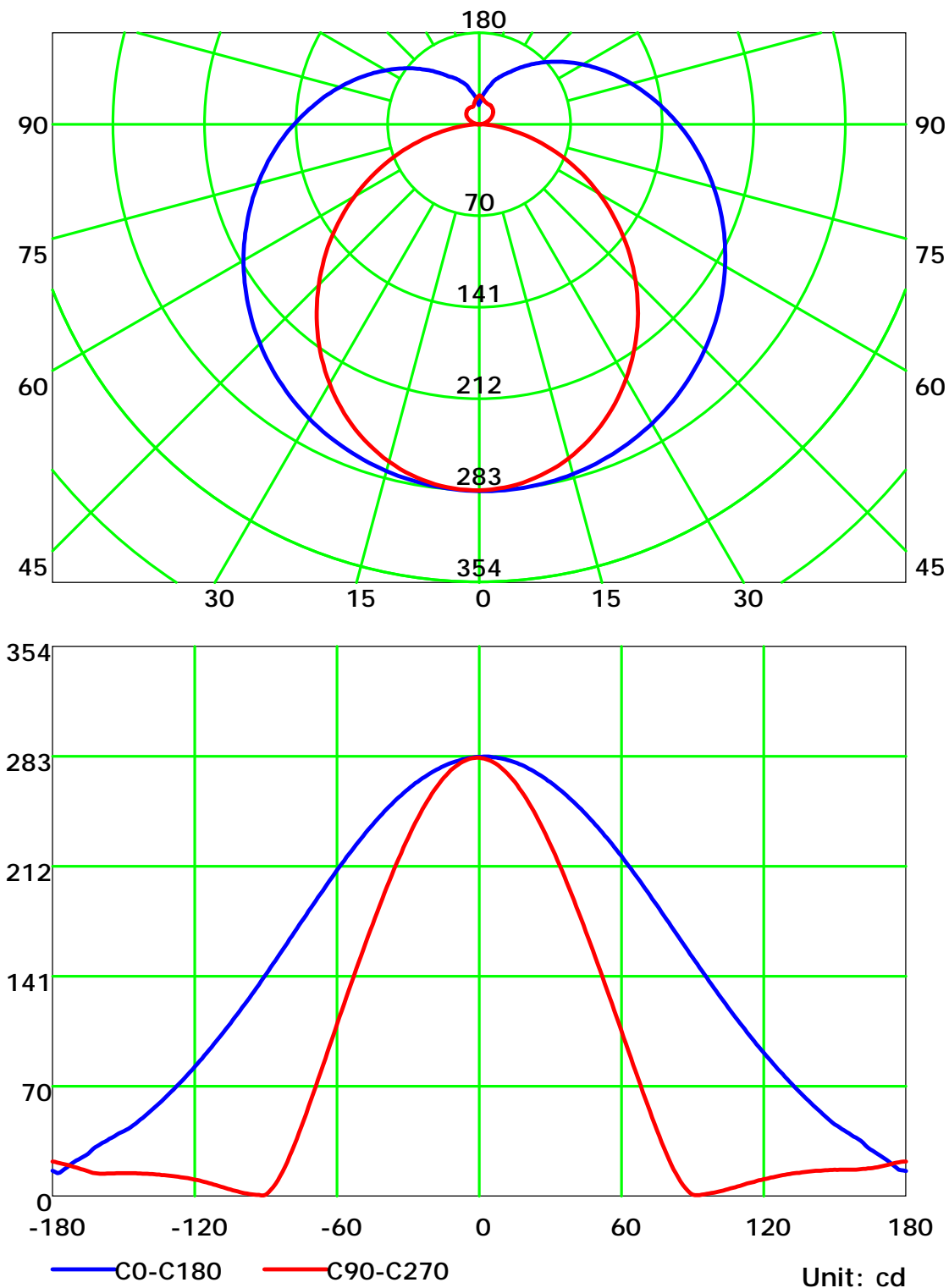
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

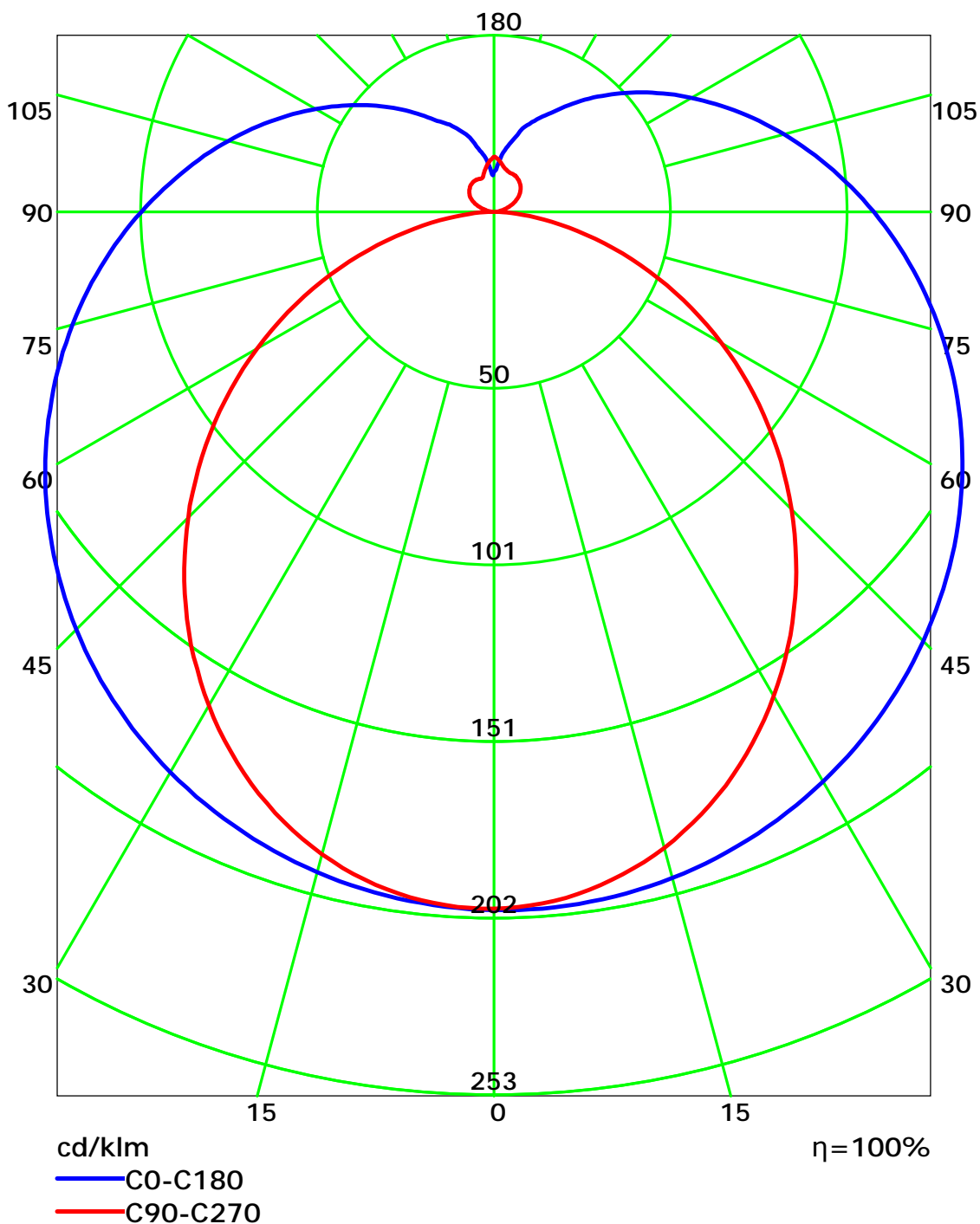
Luminous Intensity Distribution Curve



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:

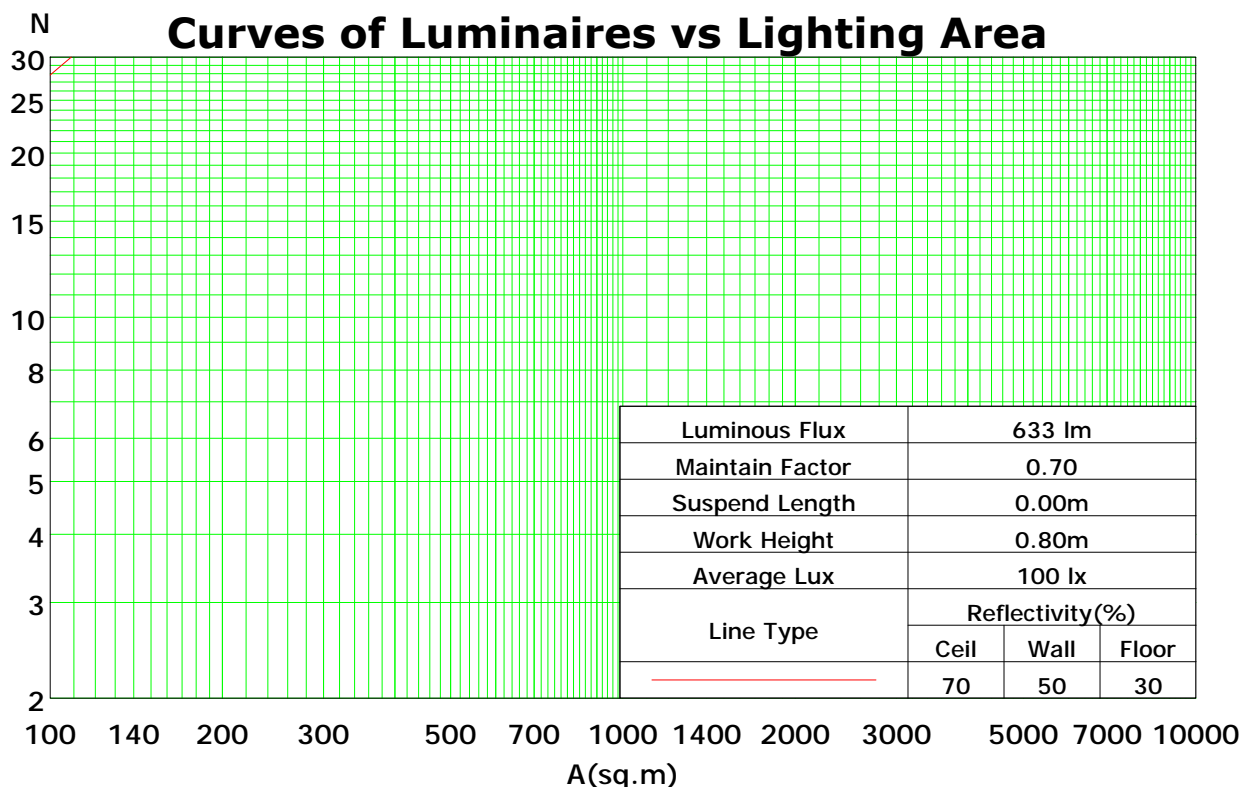
Coefficients Of Utilization - Zonal Cavity Method

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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	100	94	89	84	95	90	85	81	81	77	74	73	70	67	66	63	61	57
2	90	81	73	66	85	77	70	64	69	63	59	62	58	54	56	52	49	45
3	81	70	61	54	77	67	58	52	60	53	48	54	49	44	49	44	40	37
4	74	61	52	45	70	58	50	43	53	46	40	48	42	37	43	38	34	31
5	68	54	45	38	64	52	43	37	47	40	34	43	36	32	38	33	29	26
6	63	49	39	33	59	46	38	32	42	35	30	38	32	27	35	29	25	23
7	58	44	35	29	55	42	34	28	38	31	26	35	29	24	32	26	22	20
8	54	40	31	25	51	38	30	24	35	28	23	32	26	21	29	24	20	18
9	50	36	28	22	47	35	27	22	32	25	20	29	23	19	27	22	18	16
10	47	33	25	20	44	32	25	20	30	23	18	27	21	17	25	20	16	14

Spacing Criteria (0-180): 1.40

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.45



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

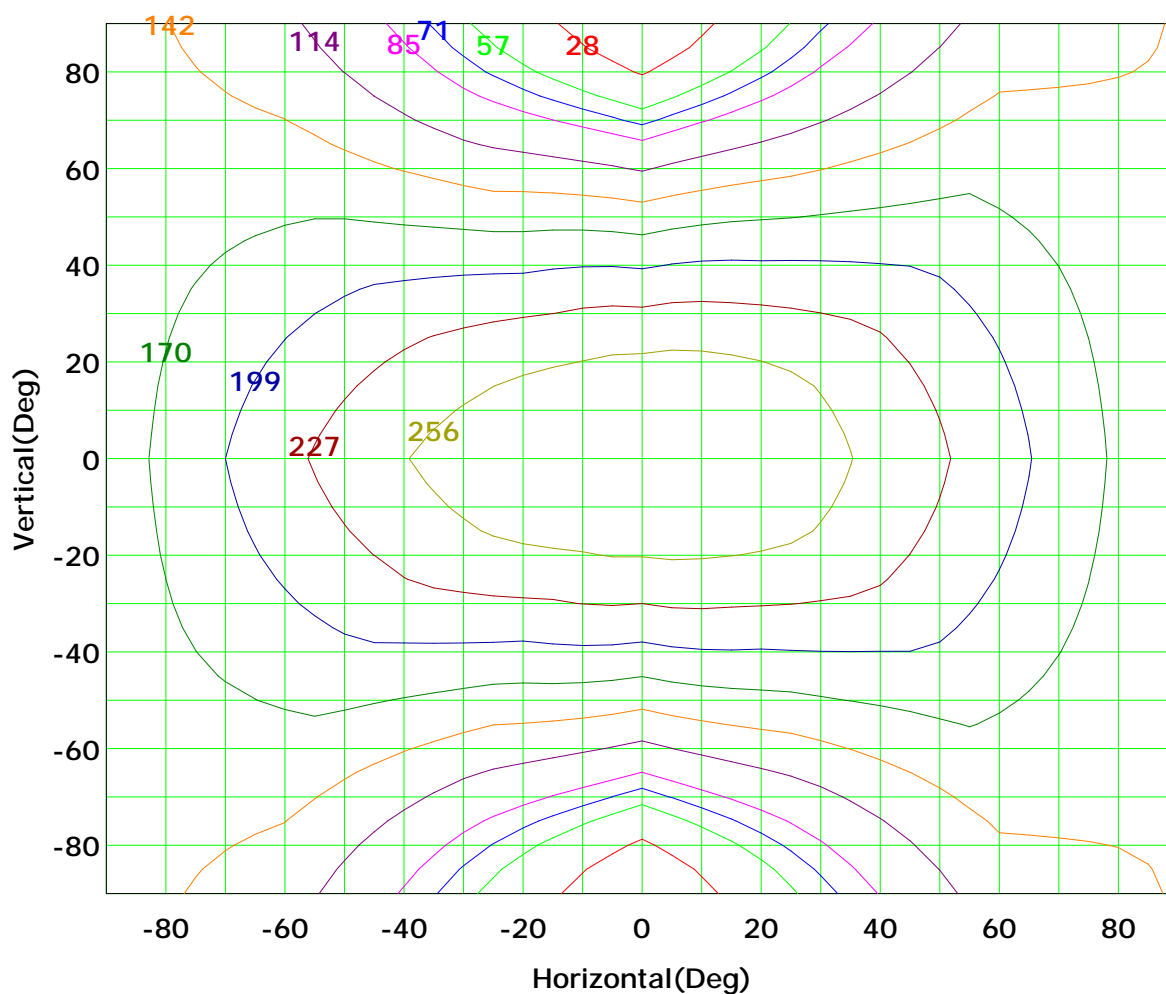
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 284 cd

(10%): 28 cd	(20%): 57 cd
(25%): 71 cd	(30%): 85 cd
(40%): 114 cd	(50%): 142 cd
(60%): 170 cd	(70%): 199 cd
(80%): 227 cd	(90%): 256 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

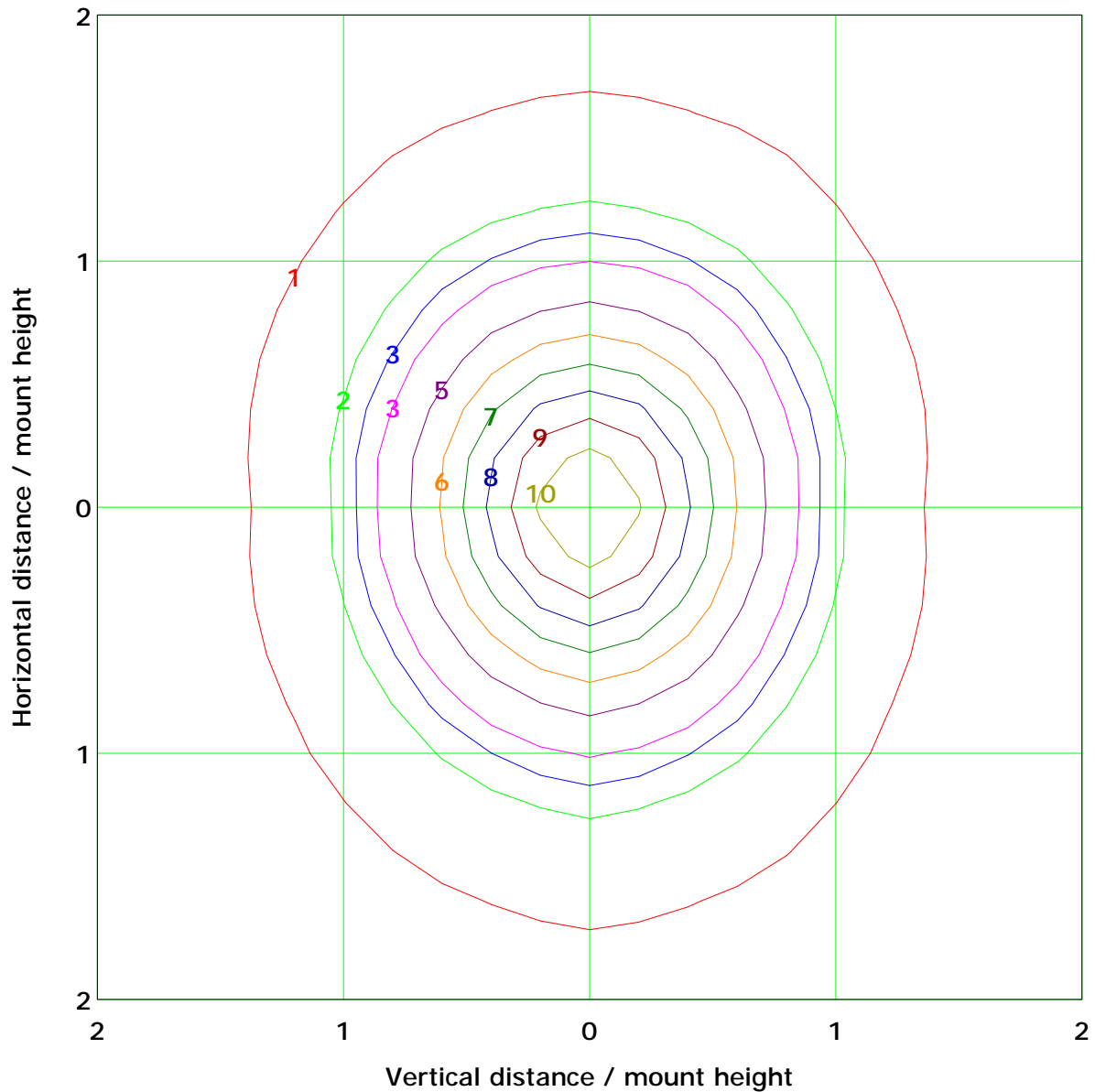
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 11.4 lx

(10%): 1.1 lx	(20%): 2.3 lx
(25%): 2.8 lx	(30%): 3.4 lx
(40%): 4.5 lx	(50%): 5.7 lx
(60%): 6.8 lx	(70%): 7.9 lx
(80%): 9.1 lx	(90%): 10.2 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

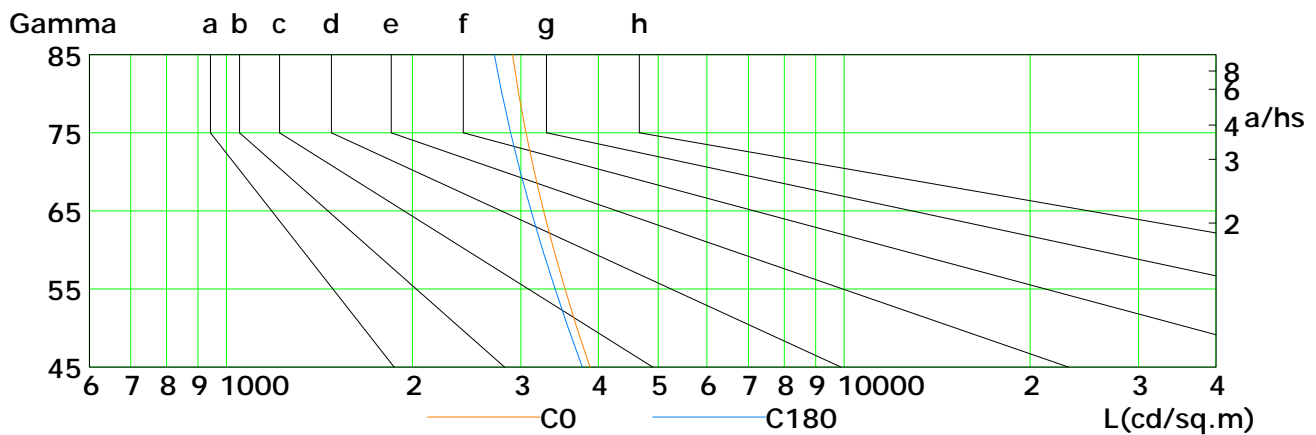
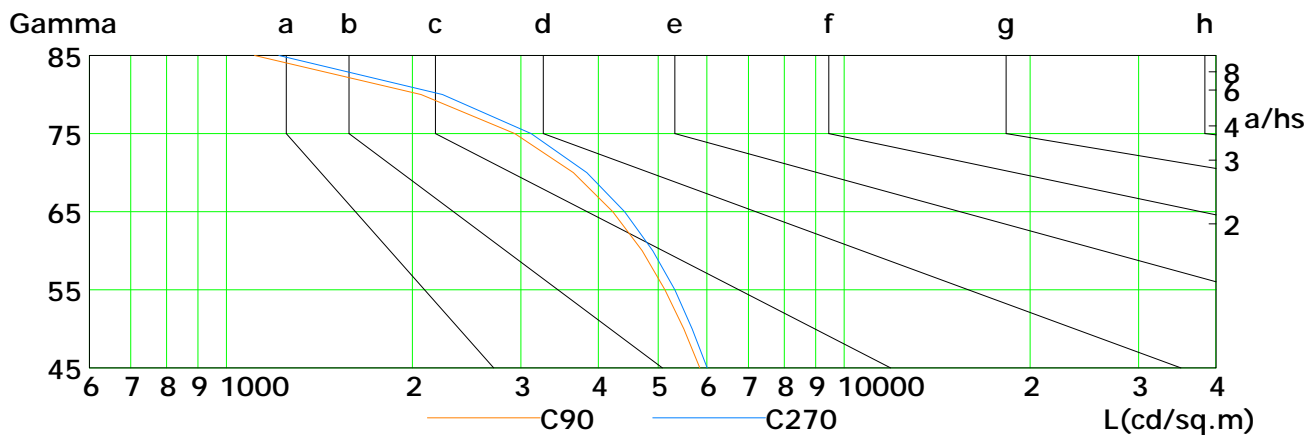
Humidity: 60%

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	3877	3695	3535	3391	3264	3152	3055	2973	2906
C90	5841	5506	5130	4710	4222	3647	2932	2067	1111
C180	3771	3578	3405	3251	3115	2991	2885	2793	2716
C270	6002	5679	5320	4904	4413	3833	3116	2239	1216

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

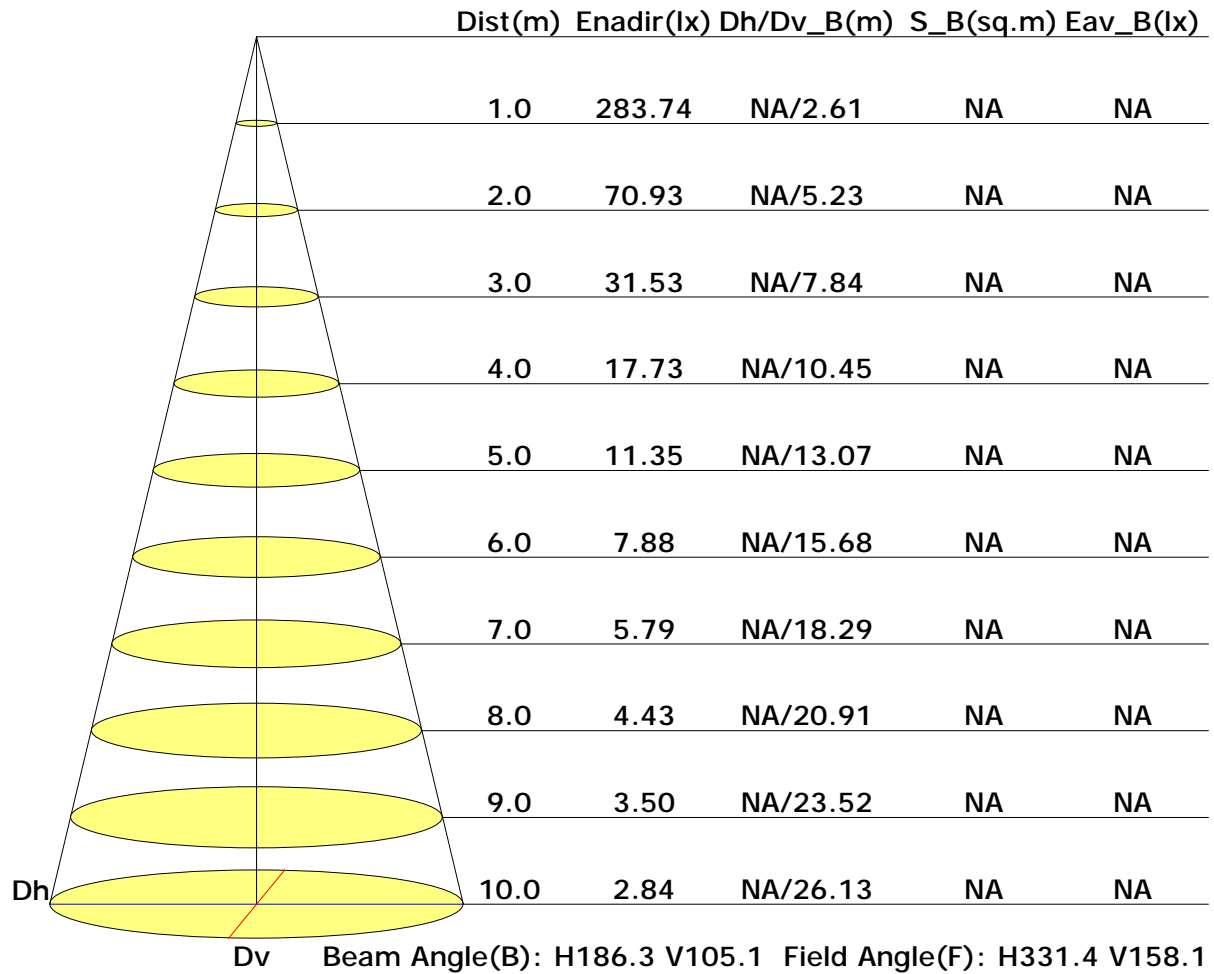
Test Device: GPM-1800B

Distance: 9.028 m

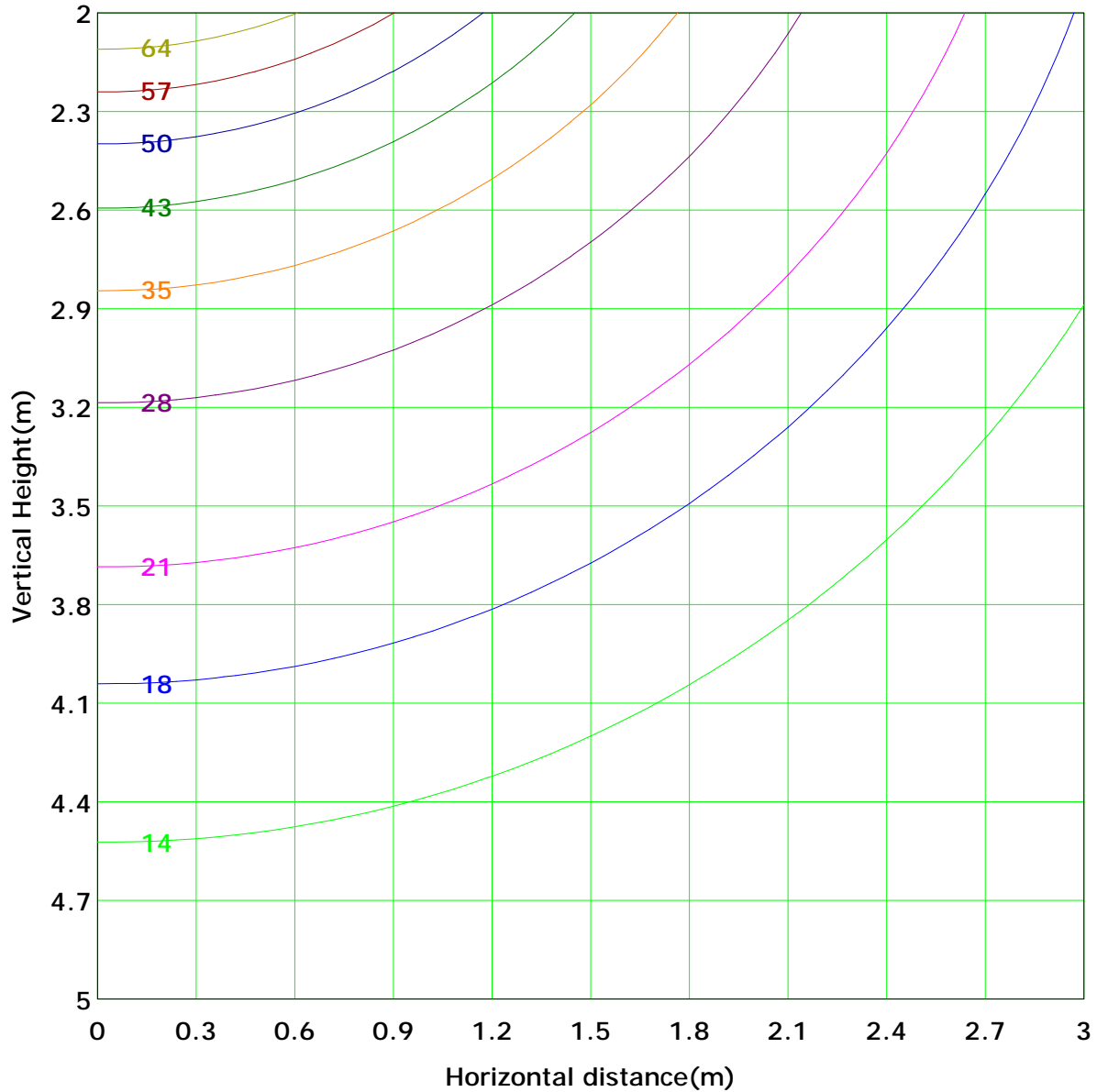
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 70.9 lx
(10%): 7.1 lx	(20%): 14.2 lx	
(25%): 17.7 lx	(30%): 21.3 lx	
(40%): 28.4 lx	(50%): 35.5 lx	
(60%): 42.6 lx	(70%): 49.7 lx	
(80%): 56.7 lx	(90%): 63.8 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

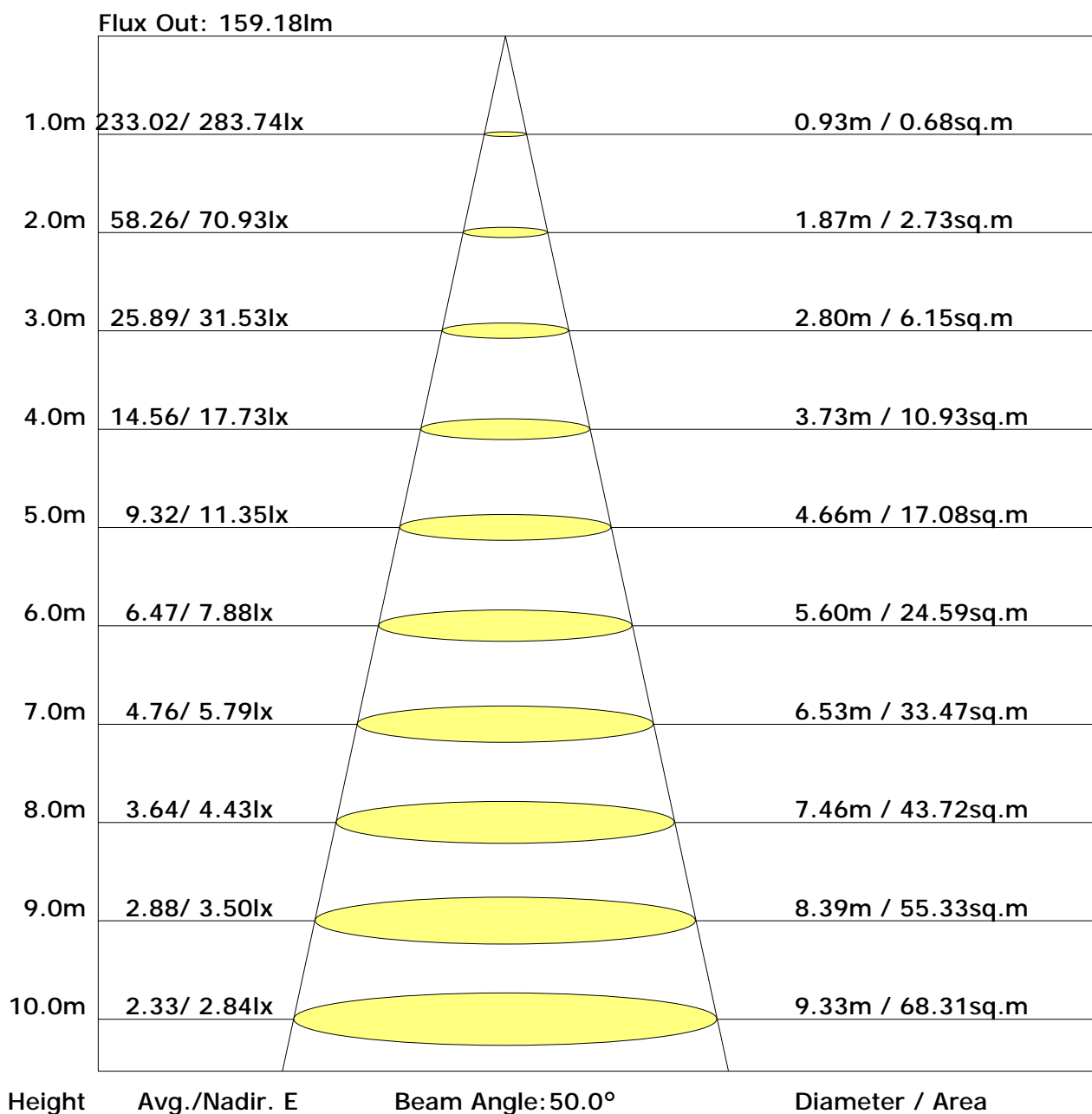
Unit: lm

		Orbit: III																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	ϕ_0	Flux(T)	Flux(E)
Vertical plane		-90	0.4	1.1	1.7	2.1	2.2	2.2	1.8	1.3	0.7	0.6	1.2	1.6	1.9	2.1	2.0	1.7	1.1	0.4	26.1	25.2
		-80	0.4	1.1	1.8	2.4	2.6	2.7	2.5	2.2	1.7	1.6	2.0	2.3	2.4	2.4	2.2	1.8	1.1	0.4	33.7	33.7
		-70	0.4	1.2	2.0	2.7	3.1	3.3	3.3	3.2	2.9	2.9	3.1	3.1	3.0	2.9	2.5	1.9	1.2	0.4	43.0	43.0
		-60	0.4	1.2	2.1	2.9	3.6	4.0	4.2	4.3	4.2	4.2	4.2	4.0	3.7	3.4	2.8	2.1	1.2	0.4	52.9	52.9
		-50	0.4	1.3	2.2	3.2	4.0	4.7	5.1	5.4	5.5	5.4	5.2	4.9	4.4	3.9	3.1	2.2	1.3	0.4	62.6	62.6
		-40	0.4	1.3	2.3	3.4	4.5	5.3	6.0	6.4	6.6	6.5	6.2	5.7	5.1	4.3	3.3	2.3	1.4	0.4	71.6	71.6
		-30	0.4	1.3	2.4	3.6	4.8	5.8	6.7	7.3	7.5	7.5	7.1	6.5	5.7	4.7	3.6	2.5	1.4	0.4	79.1	79.1
		-20	0.4	1.4	2.5	3.7	5.0	6.2	7.2	7.9	8.2	8.1	7.7	7.0	6.1	5.0	3.8	2.6	1.4	0.4	84.5	84.5
		-10	0.4	1.4	2.6	3.8	5.1	6.3	7.4	8.1	8.5	8.5	8.1	7.4	6.4	5.2	3.9	2.7	1.5	0.4	87.8	87.8
		0	0.4	1.4	2.6	3.8	5.1	6.3	7.4	8.1	8.5	8.5	8.1	7.4	6.4	5.2	3.9	2.7	1.5	0.4	87.8	87.8
		10	0.4	1.4	2.5	3.7	5.0	6.2	7.1	7.8	8.1	8.1	7.7	7.1	6.1	5.0	3.8	2.6	1.4	0.4	84.6	84.6
		20	0.4	1.4	2.4	3.6	4.8	5.8	6.6	7.2	7.4	7.4	7.0	6.5	5.7	4.7	3.6	2.5	1.4	0.4	78.9	78.9
		30	0.4	1.3	2.3	3.4	4.5	5.3	5.9	6.3	6.4	6.4	6.2	5.7	5.2	4.4	3.4	2.4	1.4	0.4	71.3	71.3
		40	0.4	1.3	2.2	3.2	4.0	4.6	5.0	5.3	5.3	5.3	5.2	4.9	4.5	3.9	3.2	2.3	1.3	0.4	62.3	62.3
		50	0.4	1.2	2.1	3.0	3.5	3.9	4.1	4.2	4.1	4.0	4.1	4.0	3.8	3.4	2.9	2.1	1.3	0.4	52.5	52.5
		60	0.4	1.2	2.0	2.7	3.0	3.2	3.2	3.1	2.8	2.8	3.0	3.1	3.1	3.0	2.6	2.0	1.2	0.4	42.7	42.7
		70	0.4	1.1	1.9	2.4	2.6	2.6	2.4	2.1	1.6	1.6	2.0	2.3	2.5	2.5	2.3	1.9	1.2	0.4	33.6	33.6
		80	0.4	1.1	1.7	2.2	2.2	2.1	1.7	1.2	0.6	0.6	1.2	1.7	2.0	2.2	2.1	1.7	1.1	0.4	26.3	25.3
Flux(T)		90	7.2	22.7	39.4	55.9	69.6	80.3	87.6	91.3	90.7	89.8	89.2	85.0	78.2	68.2	55.3	39.8	23.5	7.6	1081	
Flux(E)		7.2	22.7	39.4	55.9	69.6	80.3	87.6	91.2	89.8	89.0	89.1	85.0	78.2	68.2	55.3	39.8	23.5	7.6		1079	
Horizontal plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	ϕ_0	Flux(T)	Flux(E)

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
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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	15.6	16.9	16.3	17.6	18.4	10.9	12.2	11.6	12.9	13.7
3H	18.6	19.8	19.3	20.5	21.4	12.2	13.4	12.9	14.1	15.0
4H	20.1	21.3	20.9	22.0	22.9	12.6	13.7	13.3	14.4	15.3
6H	21.8	22.8	22.5	23.6	24.4	12.8	13.9	13.5	14.6	15.5
8H	22.6	23.6	23.3	24.4	25.3	12.9	13.9	13.6	14.6	15.5
12H	23.5	24.4	24.2	25.2	26.1	12.9	13.8	13.6	14.6	15.5
X=4H Y=2H	15.8	16.9	16.5	17.6	18.5	12.2	13.3	12.9	14.1	14.9
3H	19.0	20.0	19.8	20.8	21.7	13.8	14.8	14.5	15.5	16.4
4H	20.7	21.6	21.5	22.4	23.3	14.4	15.3	15.1	16.0	17.0
6H	22.5	23.3	23.3	24.1	25.0	14.8	15.5	15.5	16.3	17.3
8H	23.5	24.2	24.2	25.0	25.9	14.9	15.6	15.6	16.4	17.3
12H	24.5	25.2	25.3	26.0	26.9	14.9	15.6	15.7	16.4	17.3
X=8H Y=4H	20.8	21.6	21.6	22.4	23.3	15.6	16.3	16.3	17.1	18.1
6H	22.8	23.4	23.6	24.2	25.2	16.2	16.9	17.0	17.7	18.6
8H	23.8	24.4	24.6	25.2	26.2	16.4	17.0	17.2	17.8	18.8
12H	25.0	25.5	25.8	26.4	27.4	16.6	17.1	17.4	17.9	18.9
X=12H Y=4H	20.8	21.5	21.6	22.3	23.2	16.0	16.7	16.8	17.5	18.4
6H	22.8	23.4	23.6	24.2	25.2	16.8	17.4	17.6	18.2	19.1
8H	23.9	24.4	24.7	25.2	26.2	17.1	17.6	17.9	18.4	19.5

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	0.55	0.62	0.67	0.74	0.79	0.83	0.88	0.91	
	0.30		0.40	0.47	0.54	0.60	0.67	0.73	0.77	0.82	0.86	
	0.20		0.34	0.41	0.48	0.54	0.61	0.67	0.72	0.78	0.82	
0.50	0.50	0.20	0.44	0.51	0.57	0.61	0.67	0.72	0.75	0.79	0.82	
	0.30		0.37	0.44	0.50	0.55	0.62	0.67	0.70	0.75	0.79	
	0.20		0.32	0.39	0.45	0.50	0.57	0.62	0.66	0.72	0.75	
0.30	0.50	0.20	0.40	0.46	0.52	0.56	0.61	0.65	0.68	0.72	0.74	
	0.30		0.35	0.41	0.46	0.50	0.57	0.61	0.64	0.68	0.72	
	0.20		0.30	0.36	0.42	0.46	0.53	0.57	0.61	0.66	0.69	
0.00	0.00	0.00	0.26	0.31	0.36	0.40	0.45	0.49	0.52	0.56	0.59	
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	0.46	0.40	0.36	0.29	0.25	
0.50	0.50	0.20	0.92	0.79	0.69	0.61	0.51	0.45	0.38	0.31	0.26	
	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	0.28	0.23	
0.30	0.50	0.20	0.84	0.73	0.63	0.56	0.46	0.40	0.35	0.28	0.24	
	0.30		0.72	0.64	0.56	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	0.50	0.46	0.40	0.37	0.31	0.27	0.24	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	0.39	0.41	0.42	0.42	0.43	0.44	0.44	0.44	0.45
	0.30		0.33	0.34	0.35	0.36	0.38	0.39	0.39	0.41	0.41
	0.20		0.28	0.29	0.30	0.31	0.33	0.34	0.36	0.37	0.38
0.50	0.50	0.20	0.38	0.39	0.40	0.41	0.41	0.42	0.42	0.43	0.43
	0.30		0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40
	0.20		0.27	0.29	0.30	0.31	0.32	0.34	0.35	0.36	0.37
0.30	0.50	0.20	0.37	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.41
	0.30		0.31	0.33	0.34	0.34	0.35	0.36	0.37	0.38	0.38
	0.20		0.27	0.28	0.29	0.30	0.32	0.33	0.34	0.35	0.36
0.00	0.00	0.00	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Rating: 14W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											