

Report No.: 01

Test Time: 2016/9/5 19:12

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LINEARLYTE

Luminaire Description: PC2 3500K HO

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.116 A

Power Factor: 0.963

Luminous Width (mm):

Voltage: 219.8 V

Power: 24.45 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 2428.1 lm

Downward Ratio: 78%

Horizontal Diffuse Angle(50%): H169.7

Vertical Diffuse Angle(50%): V105.2

Luminaire Efficacy Rating (LER): 99

Max. Intensity: 525.25 cd

Total Rated Lamp Lumens: 2428.1 lm

Efficiency: 100%

Upward Ratio: 22%

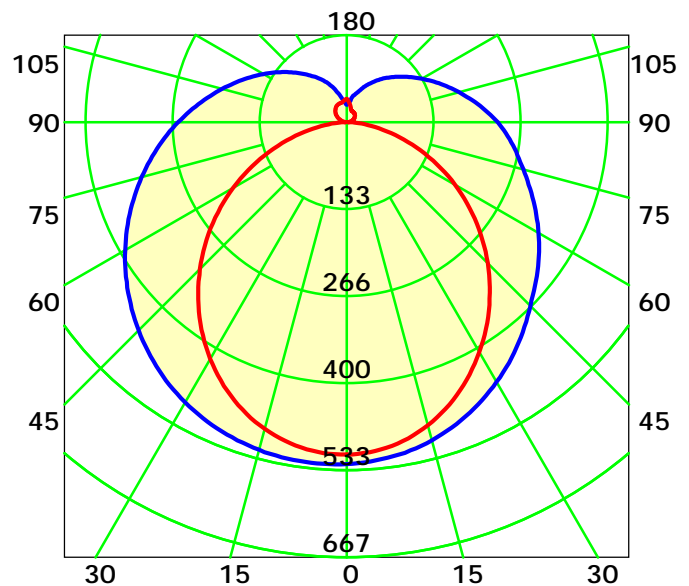
Central Intensity: 524.37 cd

Pos of Max. Intensity: H180 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 137.4° 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

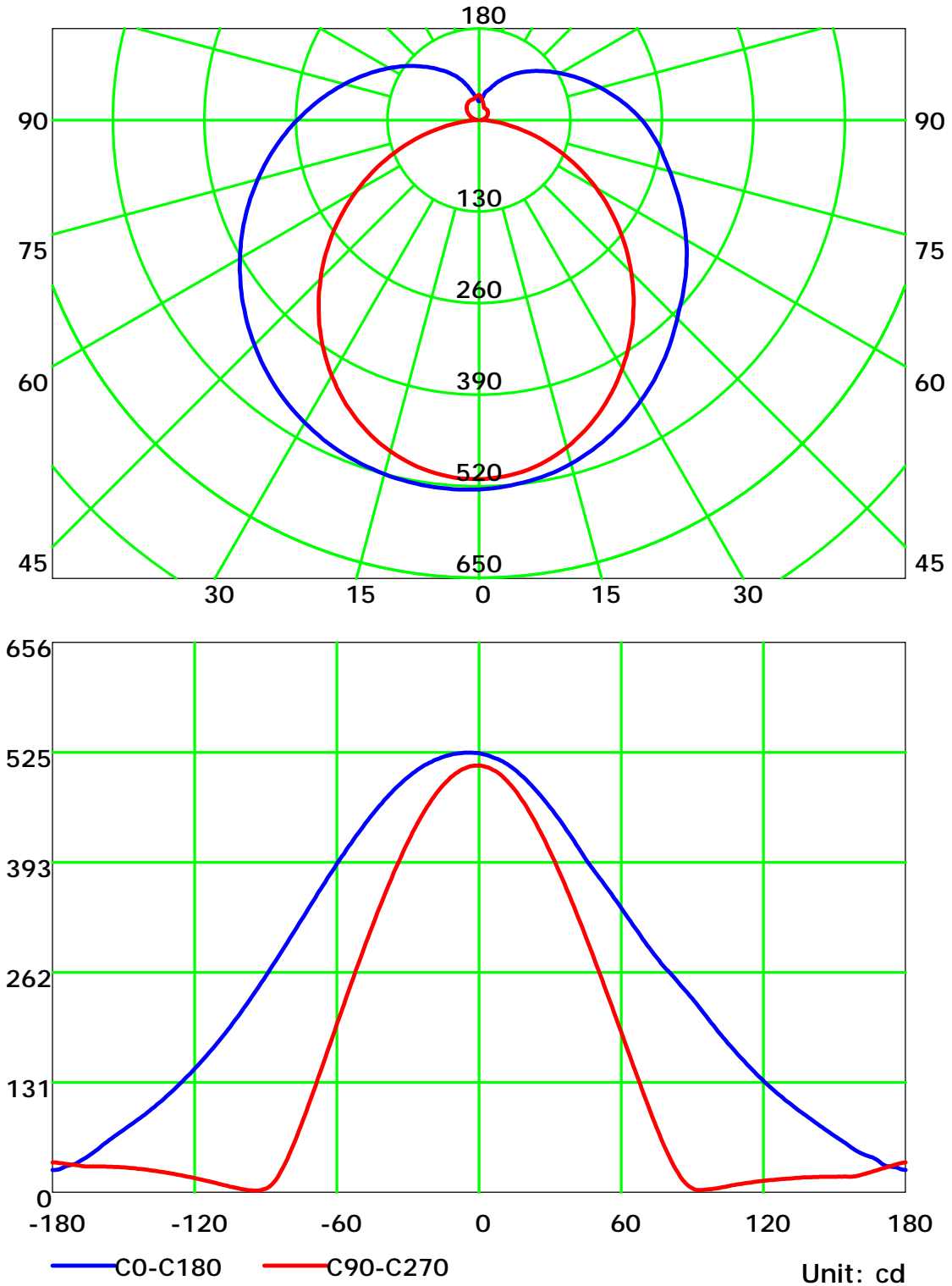
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

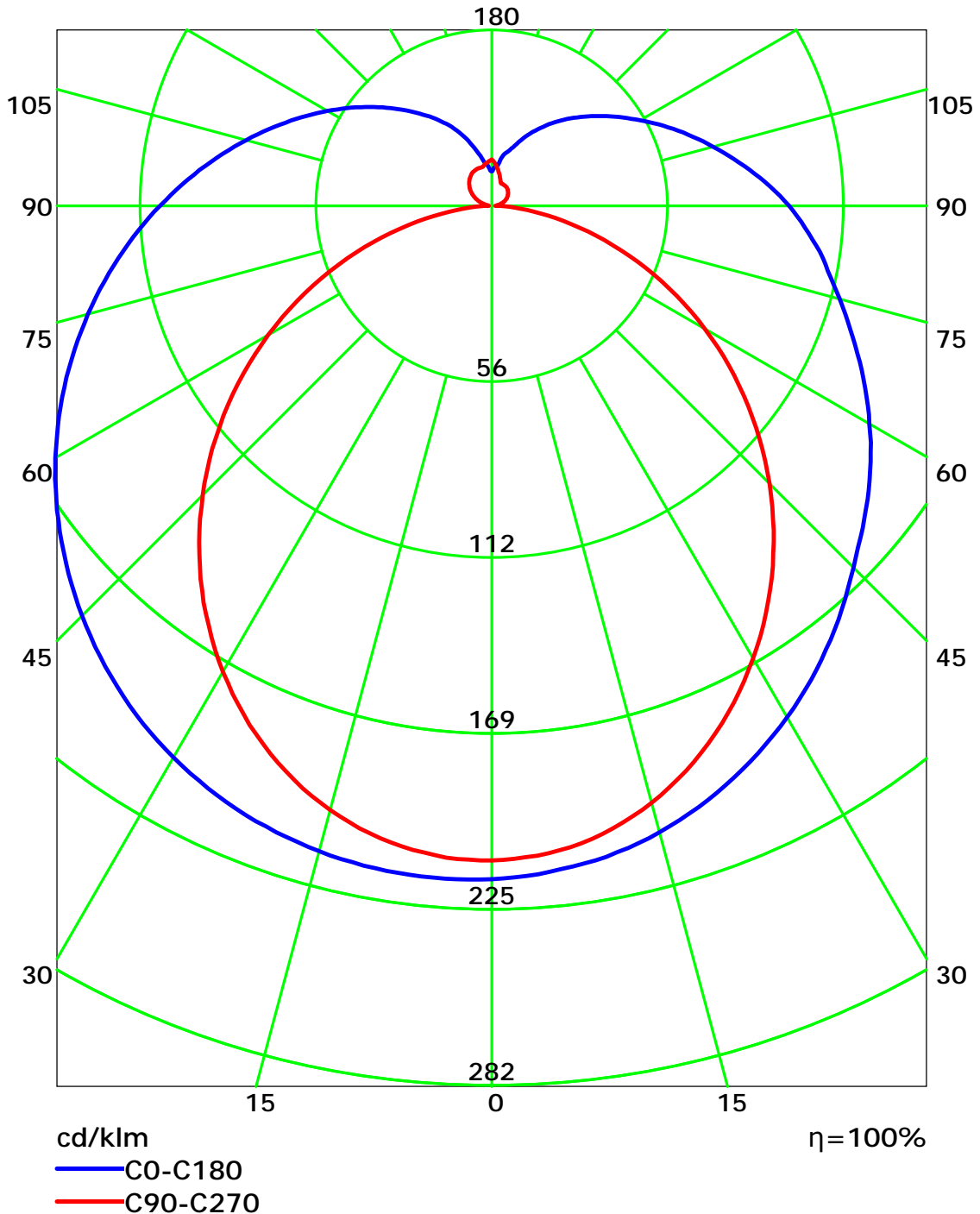
Luminous Intensity Distribution Curve



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:

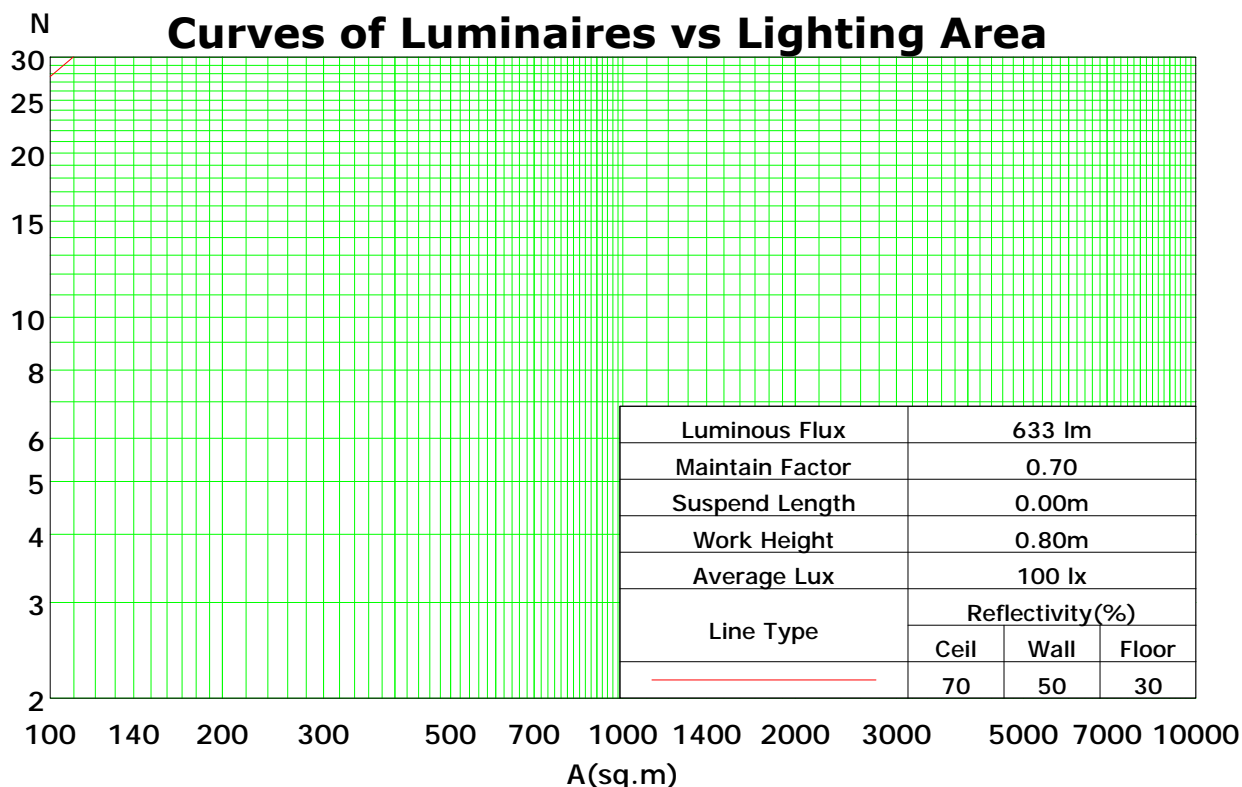
Coefficients Of Utilization - Zonal Cavity Method

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	75	74	71	68	67	65	62	59
2	90	81	73	67	86	77	70	64	70	64	59	63	59	55	57	54	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	36	30	39	33	28	36	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): 1.36

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.41



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

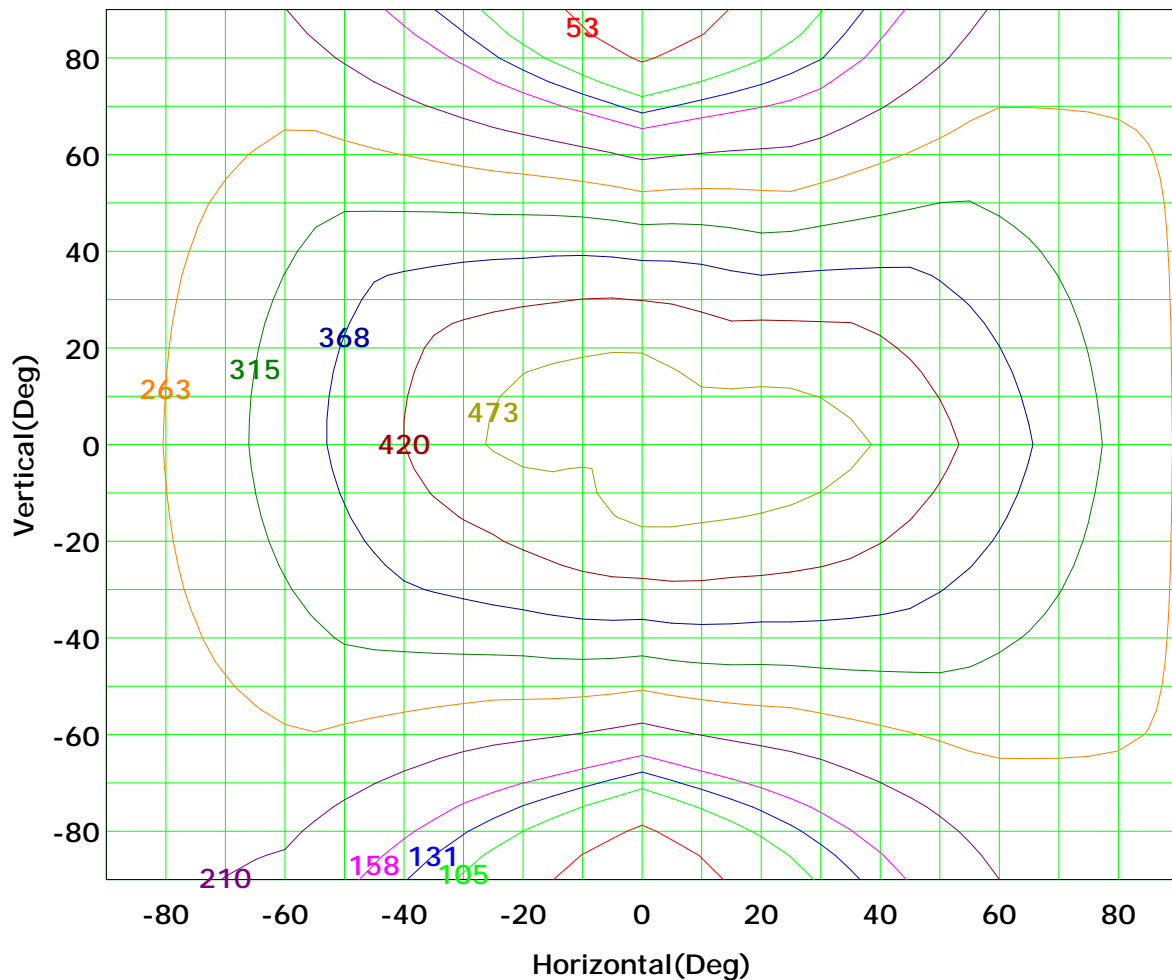
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 525 cd

(10%): 53 cd	(20%): 105 cd
(25%): 131 cd	(30%): 158 cd
(40%): 210 cd	(50%): 263 cd
(60%): 315 cd	(70%): 368 cd
(80%): 420 cd	(90%): 473 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

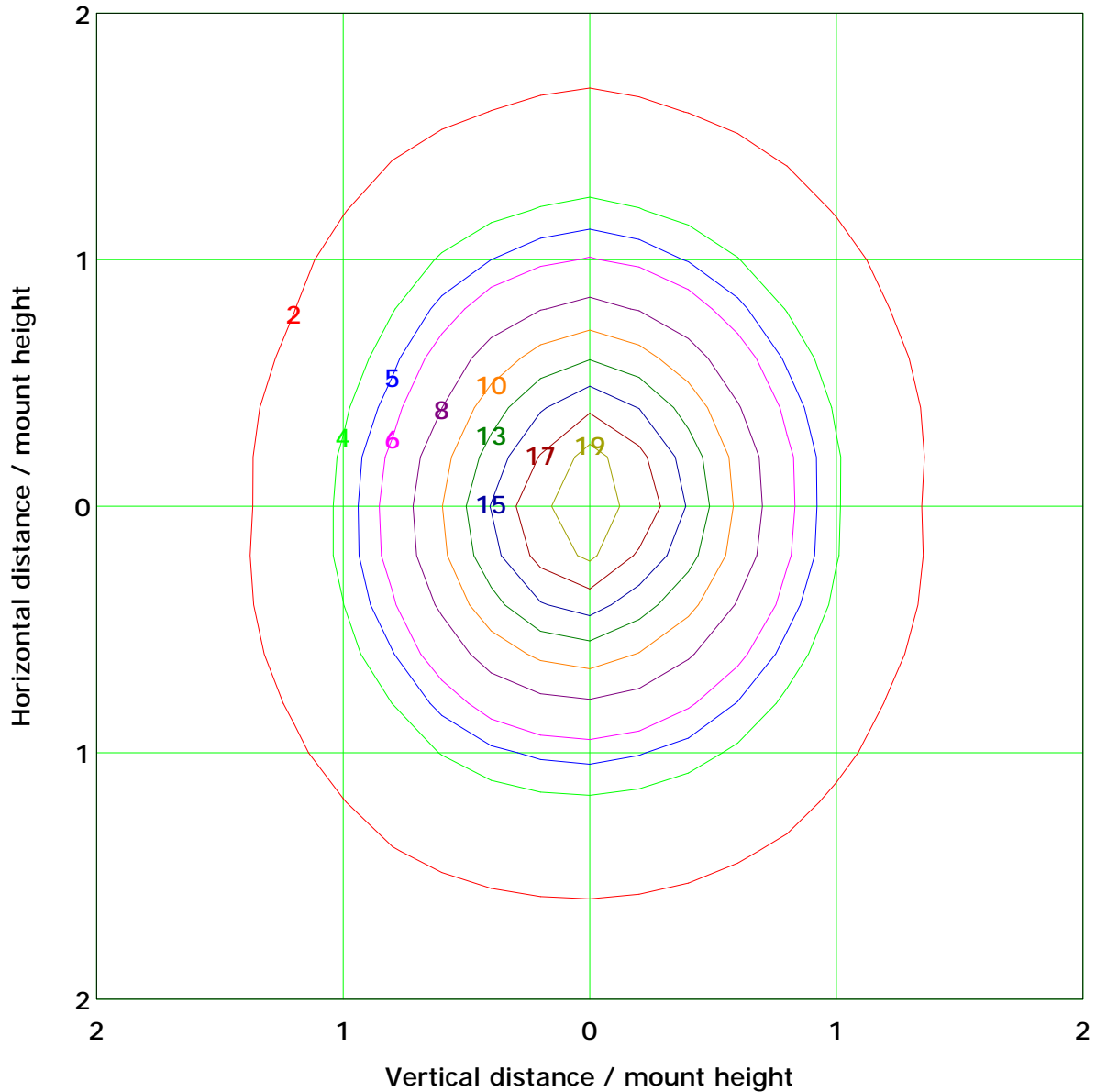
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 21.0 lx	
(10%):	2.1 lx	(20%):	4.2 lx
(25%):	5.2 lx	(30%):	6.3 lx
(40%):	8.4 lx	(50%):	10.5 lx
(60%):	12.6 lx	(70%):	14.7 lx
(80%):	16.8 lx	(90%):	18.9 lx

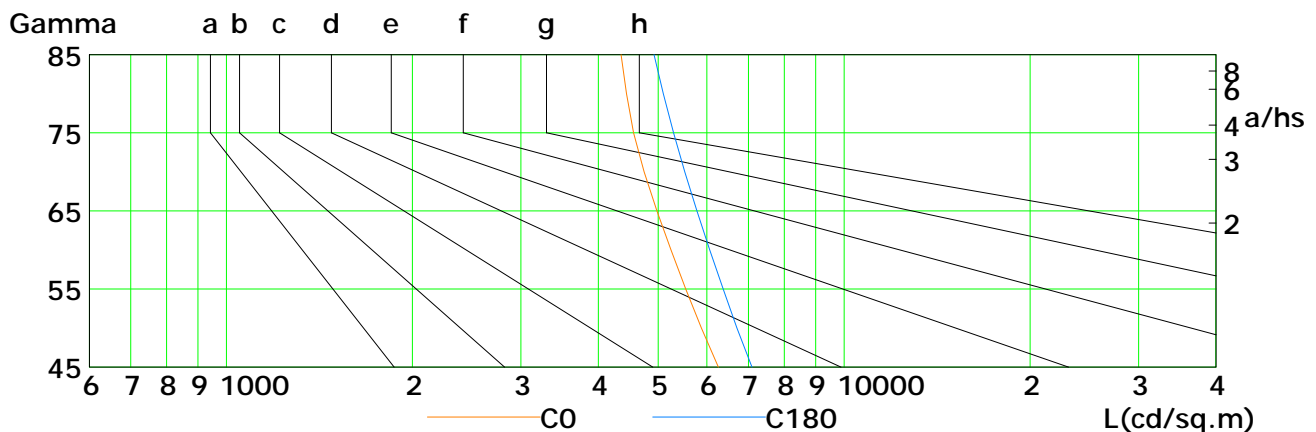
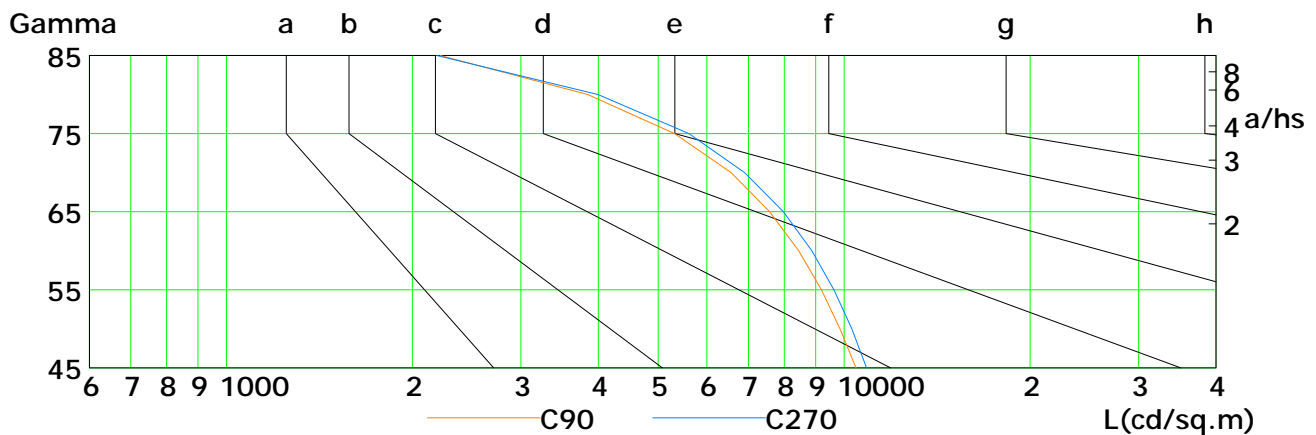
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

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

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	6261	5874	5546	5244	4979	4746	4563	4444	4354
C90	10457	9853	9195	8447	7580	6565	5315	3846	2219
C180	7095	6710	6372	6061	5777	5522	5298	5098	4927
C270	10883	10290	9625	8872	7980	6906	5607	3999	2192

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

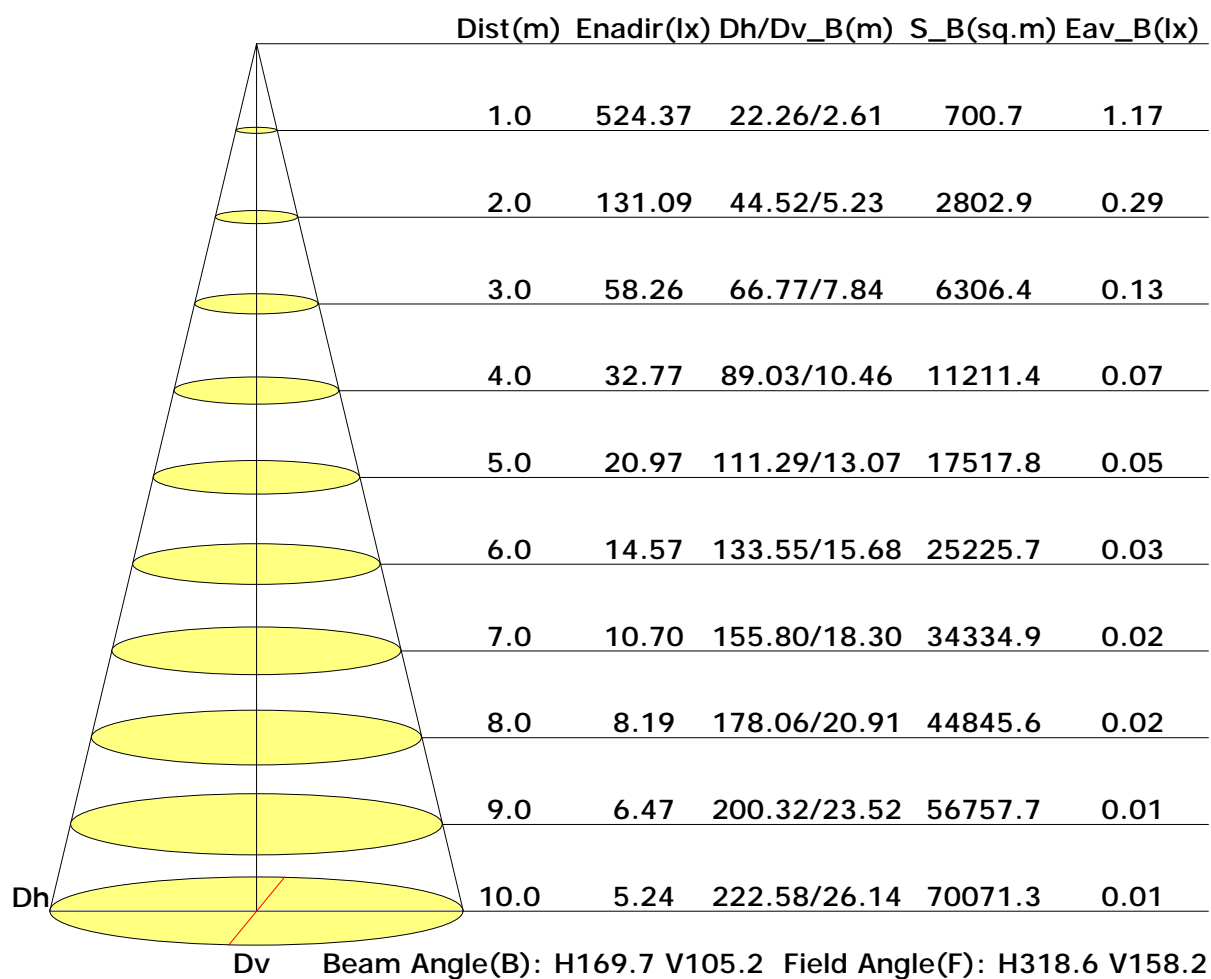
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

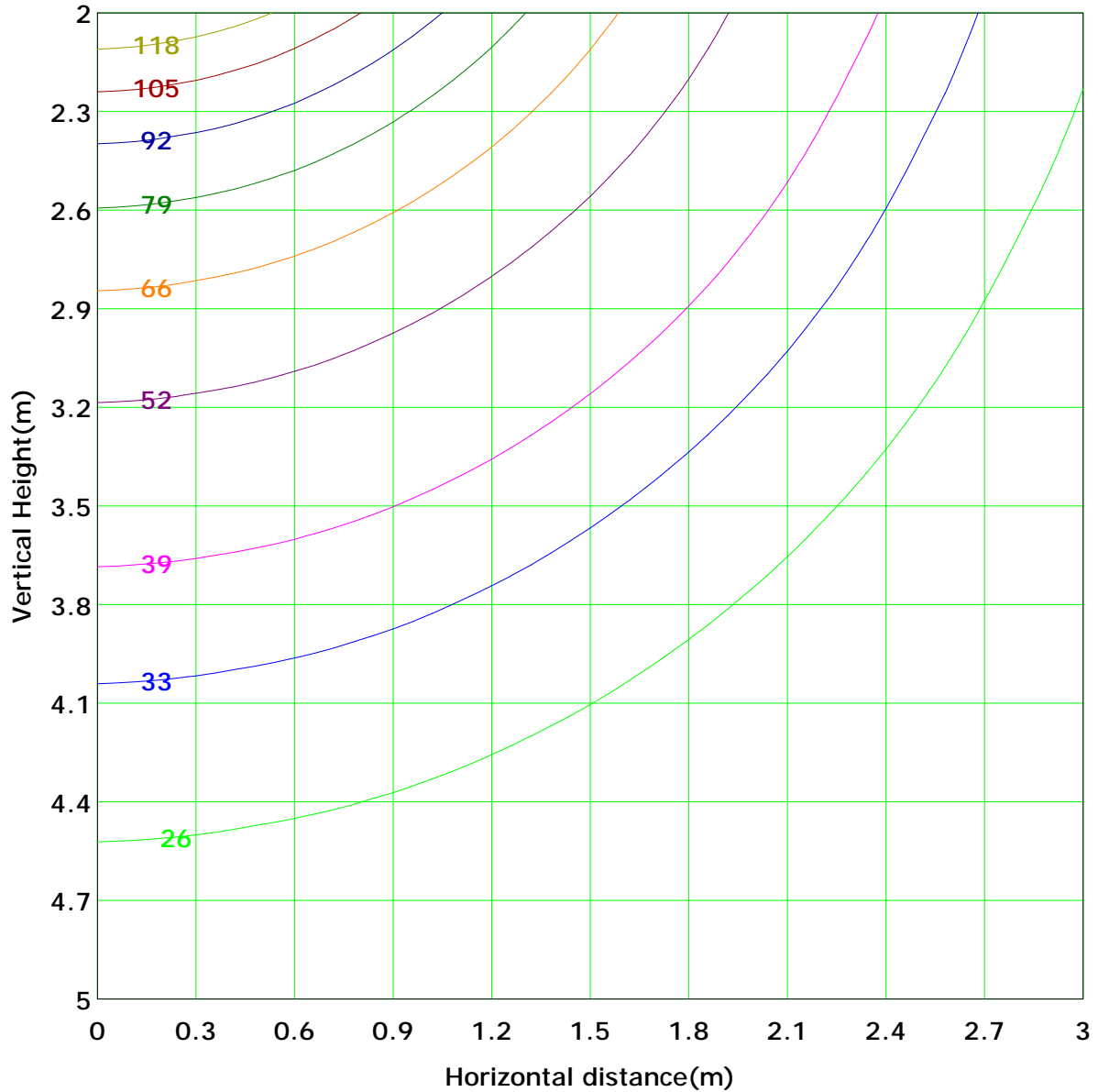
Illuminance at a Distance



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: 131.1 lx
(10%): 13.1 lx	(20%): 26.2 lx	
(25%): 32.8 lx	(30%): 39.3 lx	
(40%): 52.4 lx	(50%): 65.5 lx	
(60%): 78.7 lx	(70%): 91.8 lx	
(80%): 104.9 lx	(90%): 118.0 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

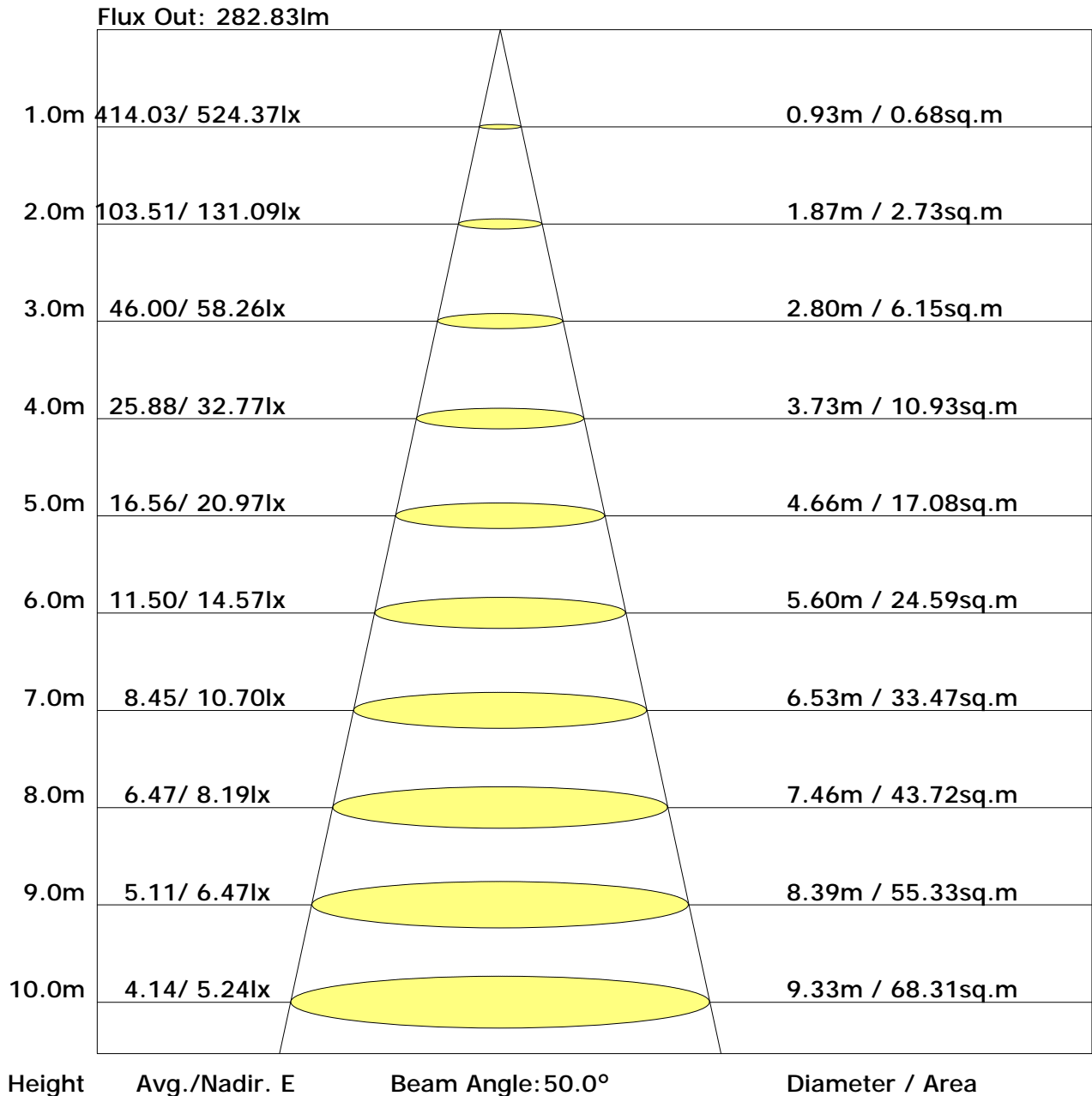
Unit: lm

		Vertical plane																		Orbit: 111		
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	$\phi_{\text{Flux(T)}}$	$\phi_{\text{Flux(E)}}$
Vertical plane	-90	0.7	1.9	3.0	3.7	3.7	3.3	2.7	2.0	1.1	1.2	2.3	3.2	3.7	3.8	3.6	2.9	1.8	0.6	45.1	43.2	
	-80	0.7	2.0	3.2	4.1	4.4	4.2	3.8	3.5	2.9	3.0	3.8	4.4	4.6	4.5	4.1	3.1	1.9	0.6	58.8	58.7	
	-70	0.7	2.1	3.5	4.7	5.2	5.4	5.3	5.3	5.1	5.2	5.7	5.9	5.8	5.3	4.6	3.3	1.9	0.6	75.7	75.7	
	-60	0.7	2.2	3.8	5.2	6.2	6.7	6.9	7.3	7.4	7.6	7.8	7.5	7.0	6.2	5.1	3.5	2.0	0.6	93.6	93.6	
	-50	0.7	2.3	4.0	5.7	7.1	8.0	8.5	9.2	9.7	9.8	9.7	9.1	8.2	7.1	5.5	3.7	2.1	0.6	111.1	111.1	
	-40	0.7	2.4	4.2	6.2	8.0	9.3	10.2	11.0	11.7	11.9	11.5	10.6	9.4	7.8	5.8	3.9	2.1	0.7	127.2	127.2	
	-30	0.7	2.5	4.4	6.6	8.7	10.4	11.7	12.5	13.3	13.5	12.9	11.8	10.3	8.2	6.1	4.0	2.2	0.7	140.4	140.4	
	-20	0.8	2.5	4.6	6.9	9.2	11.2	12.7	13.6	14.4	14.7	14.0	12.7	10.8	8.5	6.2	4.1	2.2	0.7	149.7	149.7	
	-10	0.8	2.6	4.7	7.1	9.6	11.8	13.6	14.6	14.9	15.3	14.6	13.1	11.0	8.6	6.3	4.1	2.2	0.7	155.4	155.4	
	0	0.8	2.6	4.7	7.1	9.5	11.8	13.6	14.8	15.3	14.7	14.0	12.7	10.8	8.5	6.2	4.1	2.2	0.7	154.1	154.1	
10	0.8	2.5	4.6	6.8	9.1	11.1	12.8	13.9	14.5	14.2	13.1	11.9	10.2	8.2	6.1	4.0	2.2	0.7	146.7	146.7		
20	0.7	2.4	4.4	6.4	8.5	10.3	11.8	12.7	13.2	13.1	12.3	11.1	9.6	7.8	5.8	3.9	2.1	0.7	136.9	136.9		
30	0.7	2.3	4.1	6.0	7.8	9.3	10.4	11.2	11.5	11.4	10.8	9.9	8.7	7.3	5.5	3.7	2.1	0.7	123.5	123.5		
40	0.7	2.3	3.9	5.5	7.0	8.1	8.8	9.4	9.5	9.4	9.1	8.5	7.6	6.6	5.2	3.6	2.0	0.6	107.7	107.7		
50	0.7	2.2	3.6	5.0	6.1	6.8	7.2	7.4	7.3	7.2	7.2	6.9	6.5	5.8	4.8	3.4	2.0	0.6	90.5	90.5		
60	0.7	2.1	3.4	4.5	5.2	5.5	5.6	5.4	5.0	4.9	5.3	5.4	5.3	4.9	4.3	3.1	1.9	0.6	73.0	73.0		
70	0.7	2.0	3.1	4.0	4.4	4.4	4.1	3.6	2.8	2.8	3.5	3.9	4.2	4.2	3.8	2.9	1.8	0.6	56.7	56.6		
80	0.7	1.9	2.9	3.5	3.7	3.5	2.9	2.1	1.2	1.1	2.0	2.8	3.3	3.5	3.4	2.7	1.7	0.6	43.5	41.5		
90	12.9	40.6	70.2	99.1	123.2	141.1	152.6	159.4	160.7	161.2	159.7	151.3	136.9	116.7	92.2	64.0	36.4	11.5	1890			
Flux(T)	12.9	40.6	70.2	99.1	123.2	141.1	152.6	159.4	160.7	161.2	159.7	151.3	136.9	116.7	92.2	64.0	36.4	11.5	1890			
Flux(E)	12.9	40.6	70.2	99.1	123.2	141.1	152.6	159.4	160.7	161.2	159.7	151.3	136.9	116.7	92.2	64.0	36.4	11.5		1886		
		-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	11.2	12.5	11.8	13.1	13.9
3H	18.2	19.4	18.9	20.1	21.0	12.5	13.7	13.1	14.4	15.2
4H	19.7	20.8	20.4	21.5	22.4	12.9	14.0	13.6	14.7	15.6
6H	21.2	22.3	21.9	23.0	23.8	13.1	14.2	13.8	14.9	15.7
8H	22.0	23.0	22.7	23.7	24.6	13.1	14.2	13.8	14.9	15.8
12H	22.8	23.8	23.5	24.5	25.4	13.1	14.1	13.9	14.9	15.7
X=4H Y=2H	15.7	16.8	16.4	17.5	18.4	12.4	13.5	13.1	14.3	15.1
3H	18.8	19.8	19.5	20.5	21.4	14.0	15.0	14.7	15.7	16.6
4H	20.4	21.3	21.1	22.0	22.9	14.6	15.5	15.3	16.2	17.1
6H	22.0	22.8	22.8	23.6	24.5	14.9	15.7	15.7	16.5	17.4
8H	22.9	23.7	23.7	24.5	25.4	15.0	15.8	15.8	16.6	17.5
12H	23.9	24.6	24.7	25.4	26.3	15.1	15.8	15.9	16.6	17.5
X=8H Y=4H	20.5	21.3	21.2	22.0	22.9	15.7	16.4	16.4	17.2	18.1
6H	22.3	23.0	23.1	23.8	24.7	16.3	17.0	17.1	17.8	18.7
8H	23.4	24.0	24.2	24.8	25.7	16.5	17.1	17.3	17.9	18.9
12H	24.5	25.0	25.3	25.8	26.8	16.7	17.2	17.5	18.0	19.0
X=12H Y=4H	20.5	21.2	21.3	22.0	22.9	16.0	16.7	16.8	17.5	18.4
6H	22.4	23.0	23.2	23.8	24.7	16.8	17.4	17.6	18.2	19.2
8H	23.5	24.0	24.2	24.8	25.8	17.2	17.7	17.9	18.5	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	0.56	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	0.73	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	0.52	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:24W 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:24W 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	0.39	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	0.27	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	0.40	0.41	0.41	0.41
	0.30		0.30	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.38
	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	0.35	0.37	0.37	0.38	0.39	0.39	0.39	0.39	0.40
	0.30		0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.36	0.37
	0.20		0.26	0.27	0.28	0.29	0.30	0.32	0.32	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:24W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											