

Report No.: 01

Test Time: 2016/9/7 19:18

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LINEARLYTE

Luminaire Description: PR3 3500K HO

Luminous Width (mm):

Voltage: 219.8 V

Power: 24.67 W

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.116 A

Power Factor: 0.964

Photometric Results

CIE Class: Direct

Measurement Flux: 1743.1 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H97.8

Vertical Diffuse Angle(50%): V105.2

Luminaire Efficacy Rating (LER): 71

Max. Intensity: 691.72 cd

Total Rated Lamp Lumens: 1743.1 lm

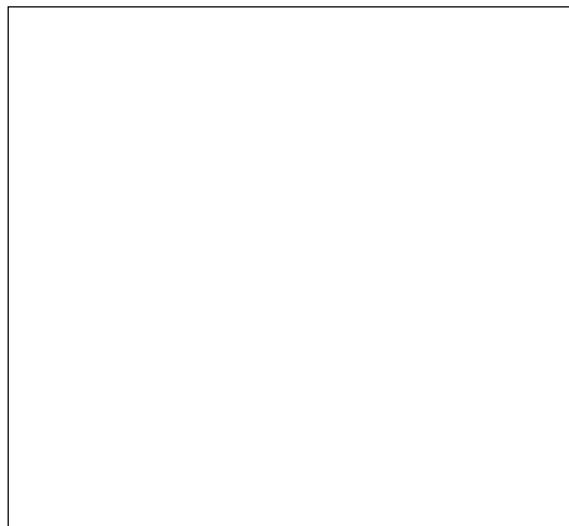
Efficiency: 100%

Upward Ratio: 1%

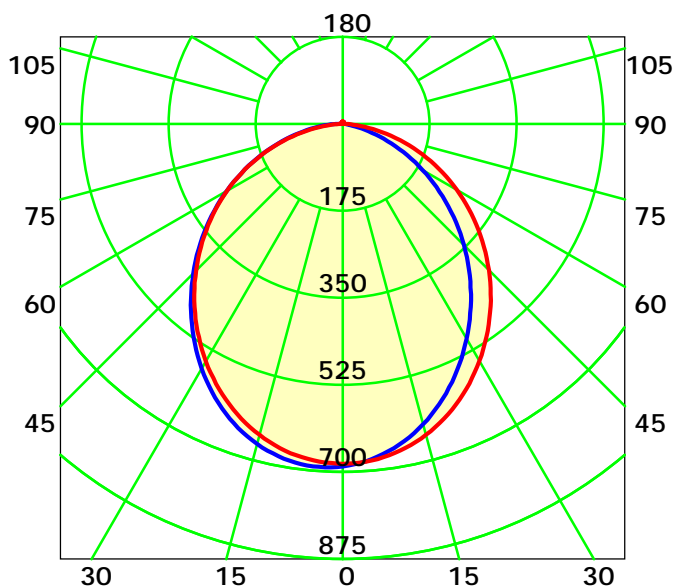
Central Intensity: 688.85 cd

Pos of Max. Intensity: H180 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 101.5° 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

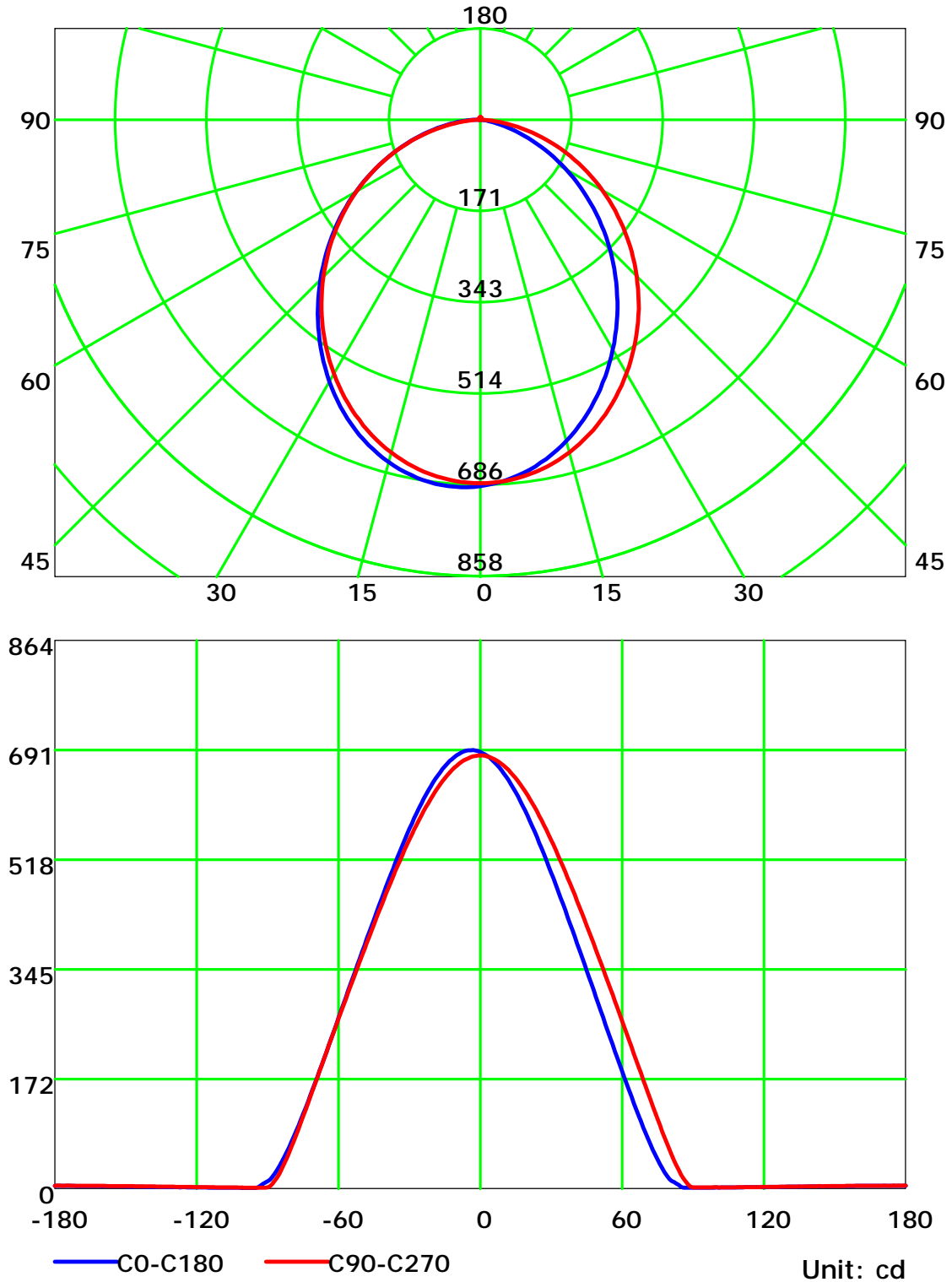
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

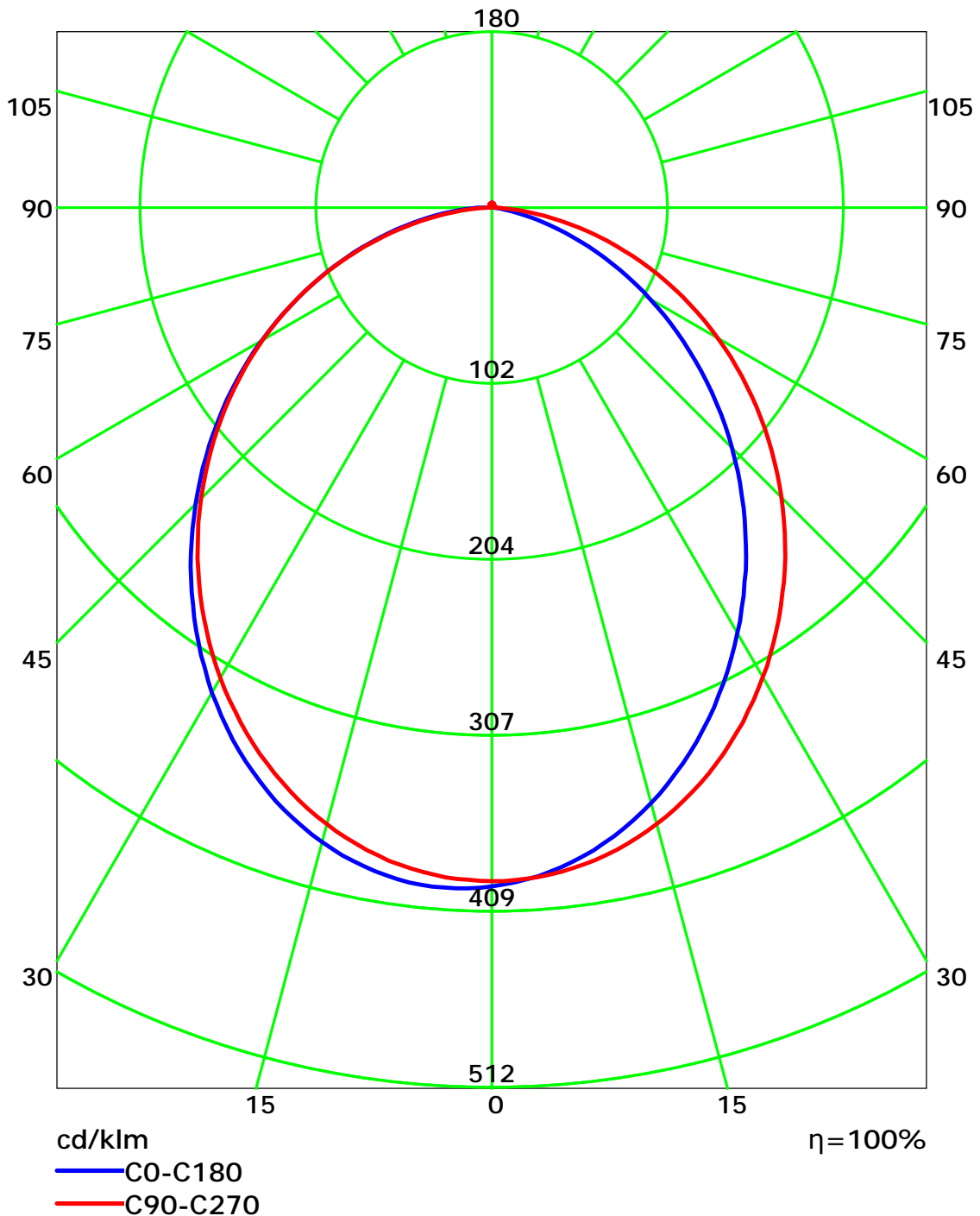
Luminous Intensity Distribution Curve



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:

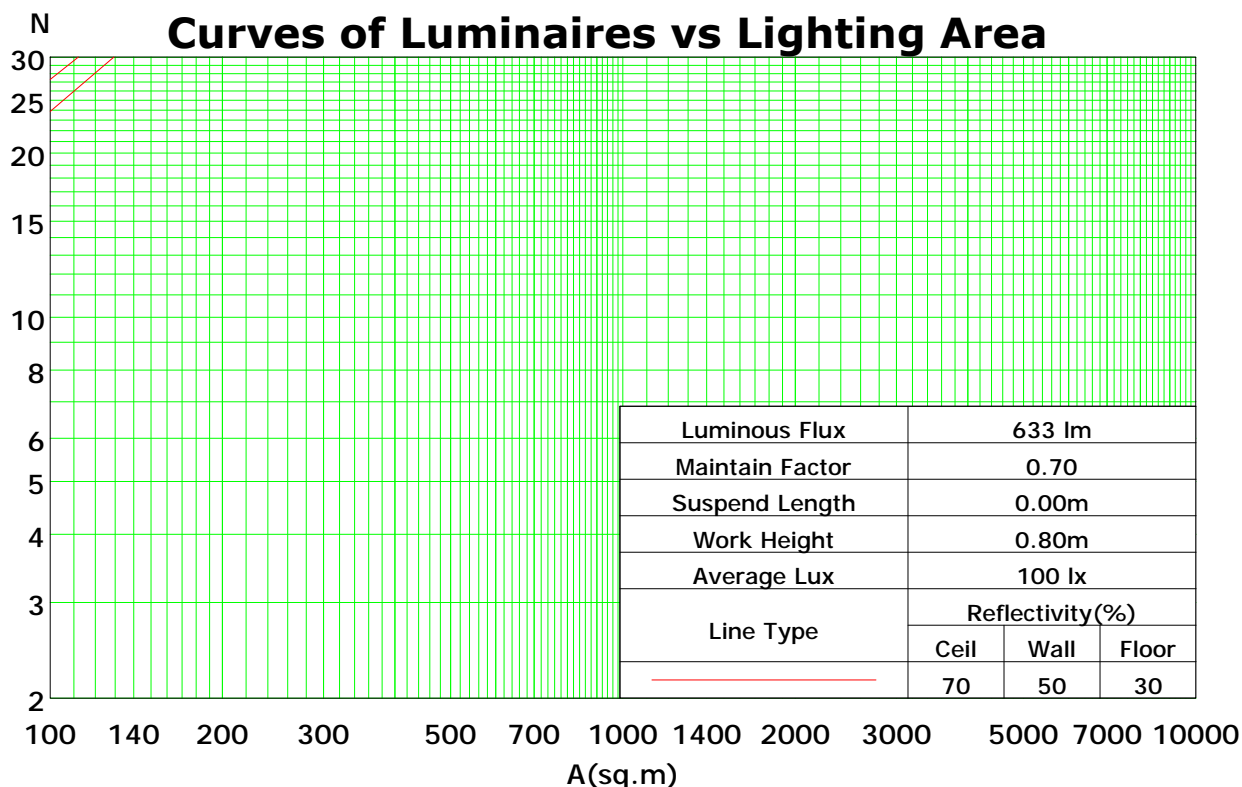
Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	109	104	100	97	106	102	98	95	98	94	92	93	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	55	49	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	43	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

Spacing Criteria (0-180): 1.16

Spacing Criteria (90-270): 1.20

Spacing Criteria (Diagonal): 1.29



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

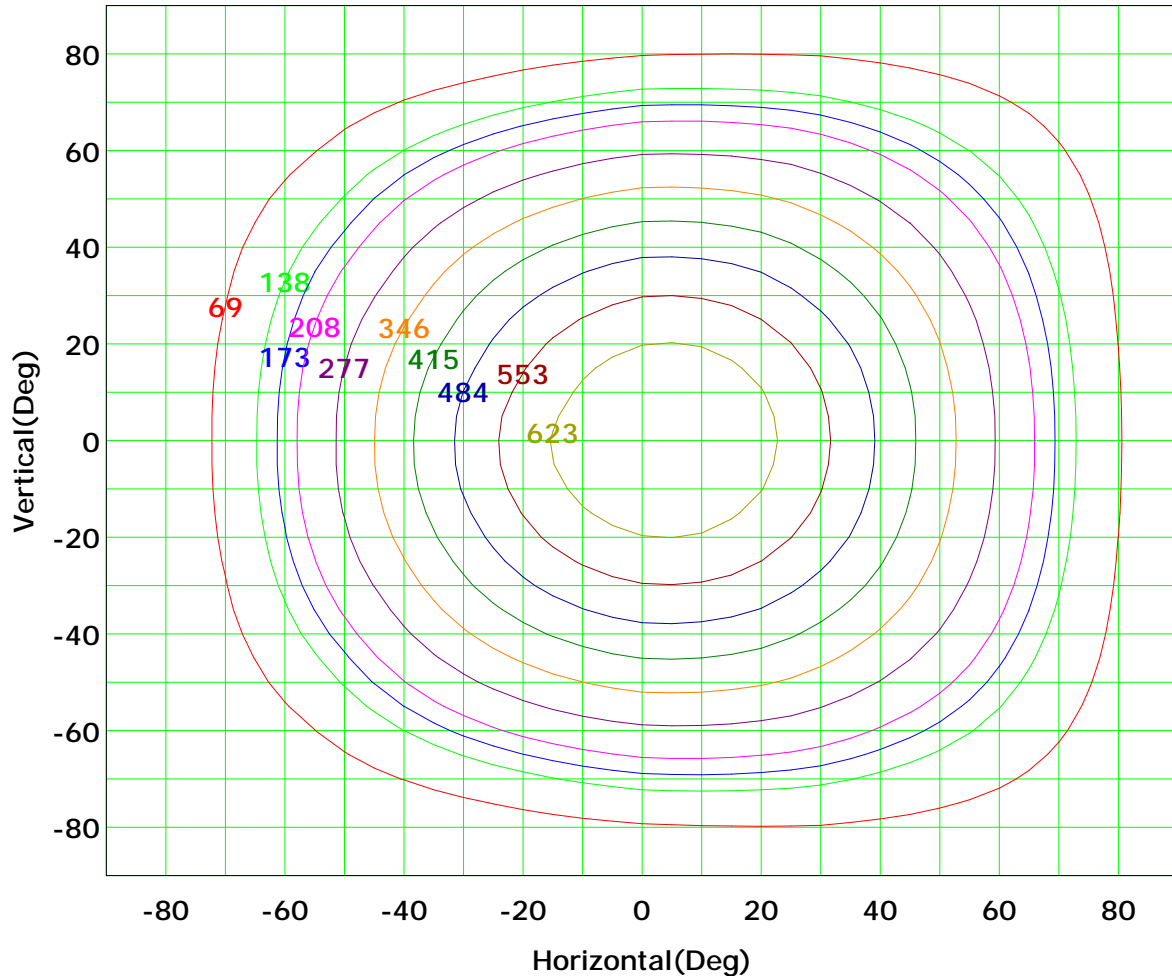
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 692 cd

(10%): 69 cd	(20%): 138 cd
(25%): 173 cd	(30%): 208 cd
(40%): 277 cd	(50%): 346 cd
(60%): 415 cd	(70%): 484 cd
(80%): 553 cd	(90%): 623 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

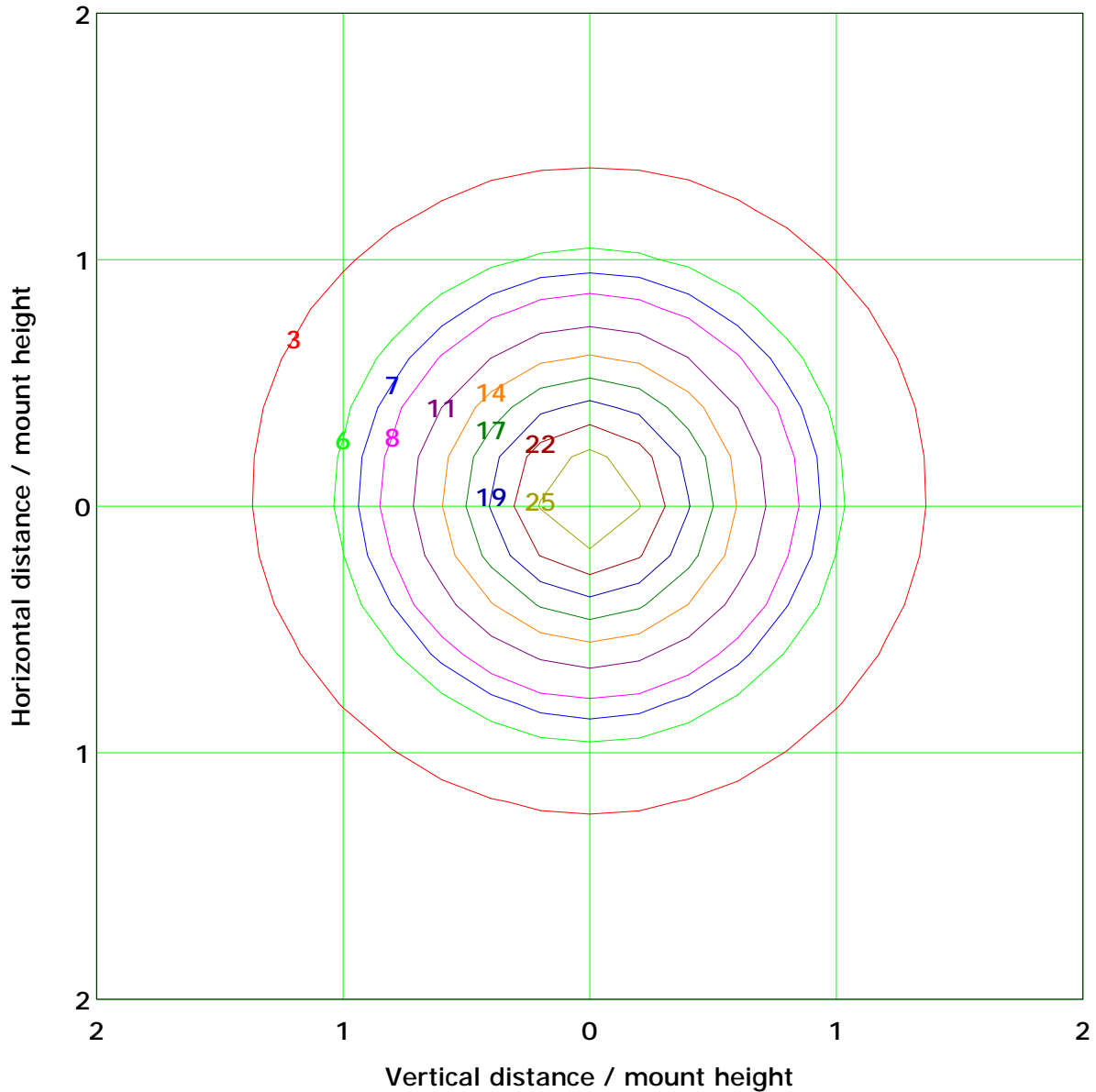
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 27.6 lx

(10%): 2.8 lx	(20%): 5.5 lx
(25%): 6.9 lx	(30%): 8.3 lx
(40%): 11.0 lx	(50%): 13.8 lx
(60%): 16.6 lx	(70%): 19.3 lx
(80%): 22.1 lx	(90%): 24.8 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

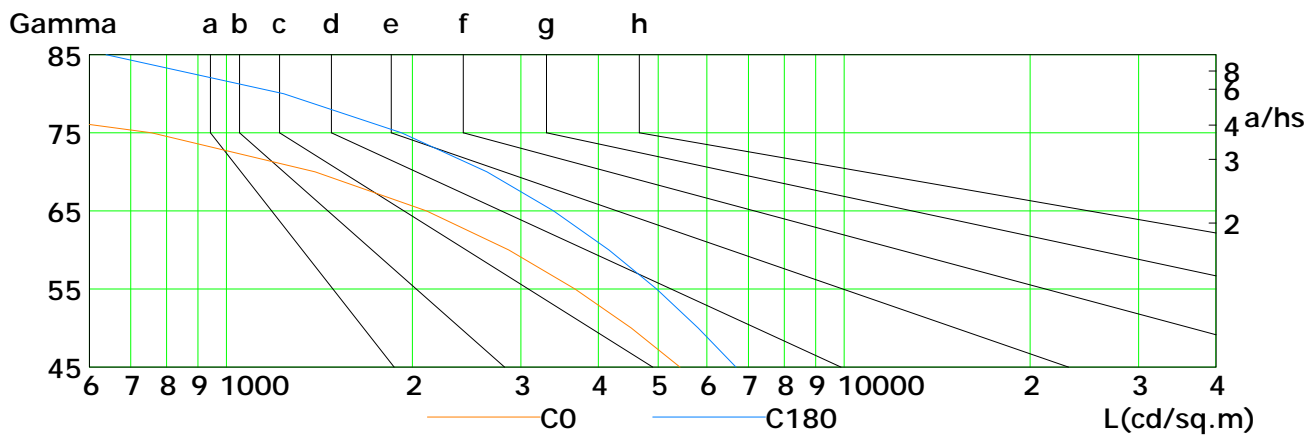
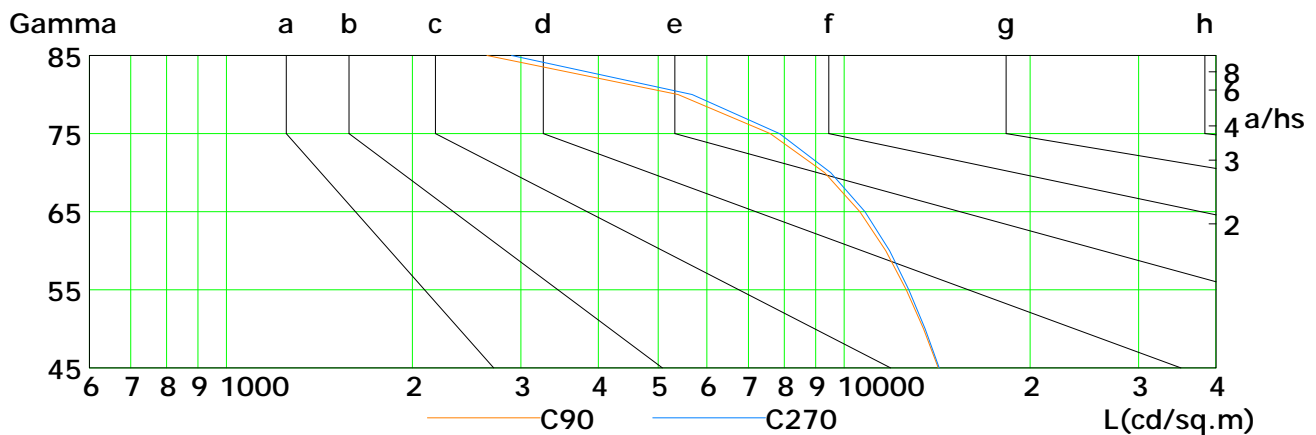
Humidity: 60%

Inspector:

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	5422	4523	3667	2867	2110	1392	756	264	58
C90	14208	13445	12608	11680	10612	9307	7598	5384	2643
C180	6683	5805	4972	4165	3387	2642	1922	1238	638
C270	14262	13526	12728	11846	10806	9519	7864	5675	2898

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

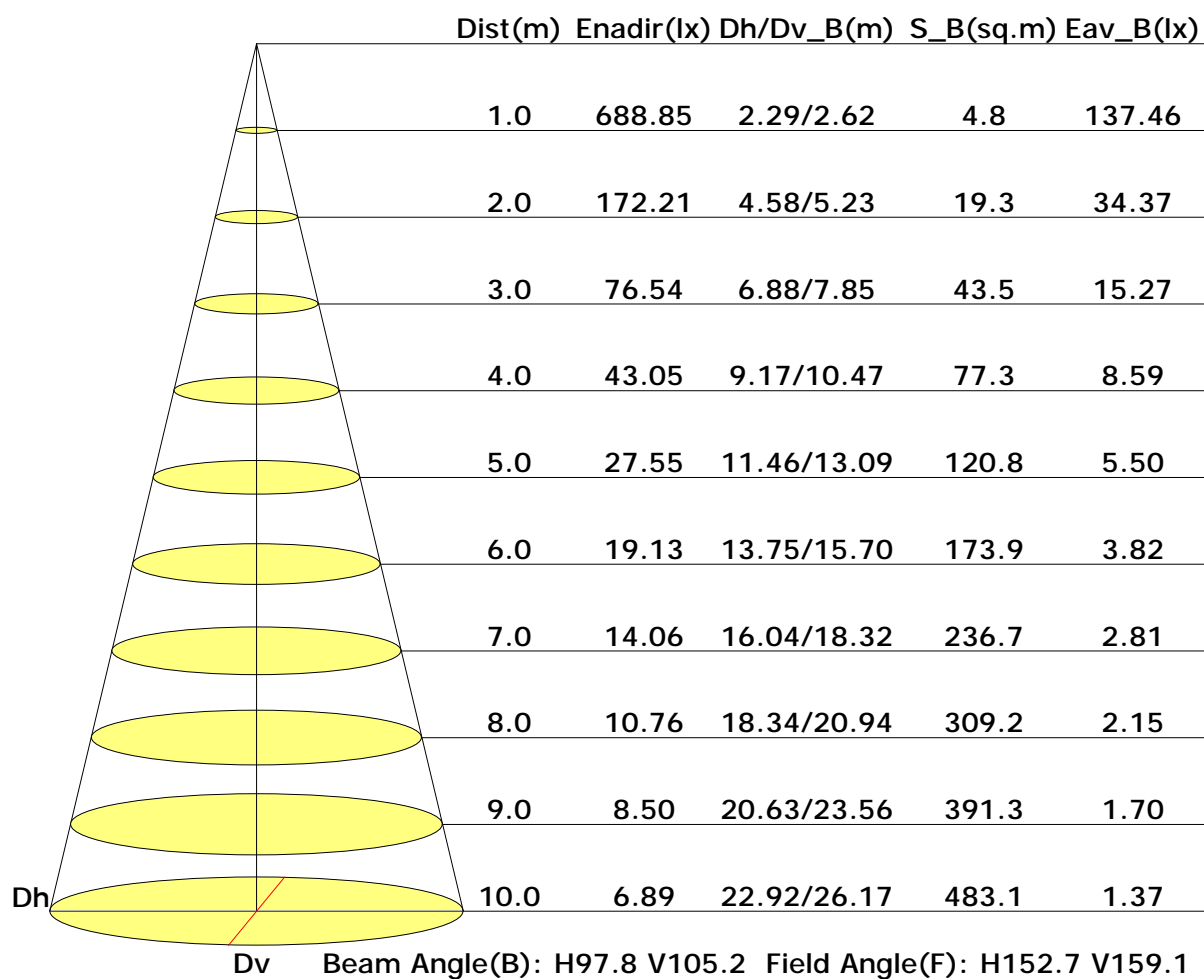
Test Device: GPM-1800B

Distance: 9.028 m

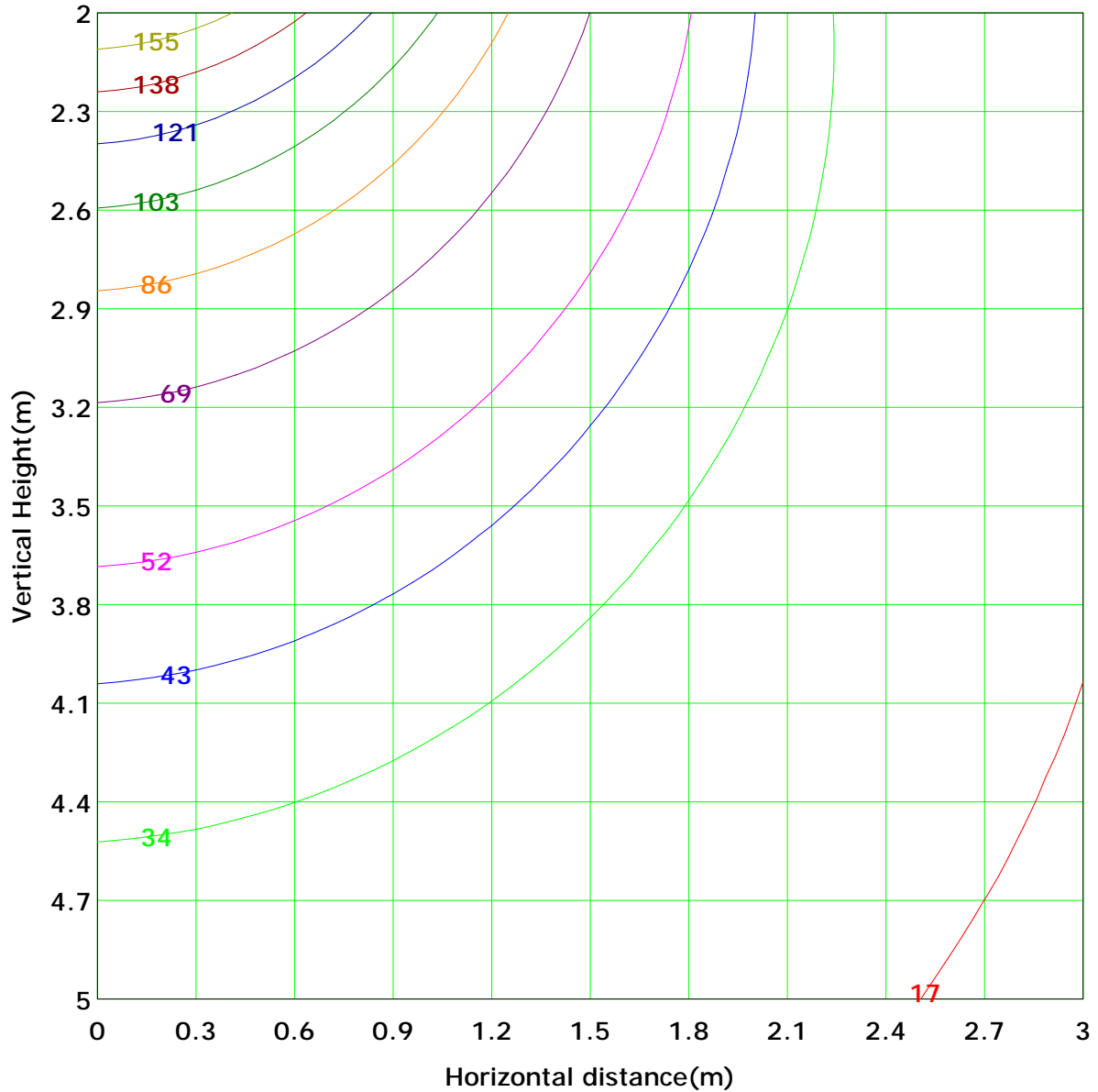
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 172.2 lx
(10%): 17.2 lx	(20%): 34.4 lx	
(25%): 43.1 lx	(30%): 51.7 lx	
(40%): 68.9 lx	(50%): 86.1 lx	
(60%): 103.3 lx	(70%): 120.5 lx	
(80%): 137.8 lx	(90%): 155.0 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

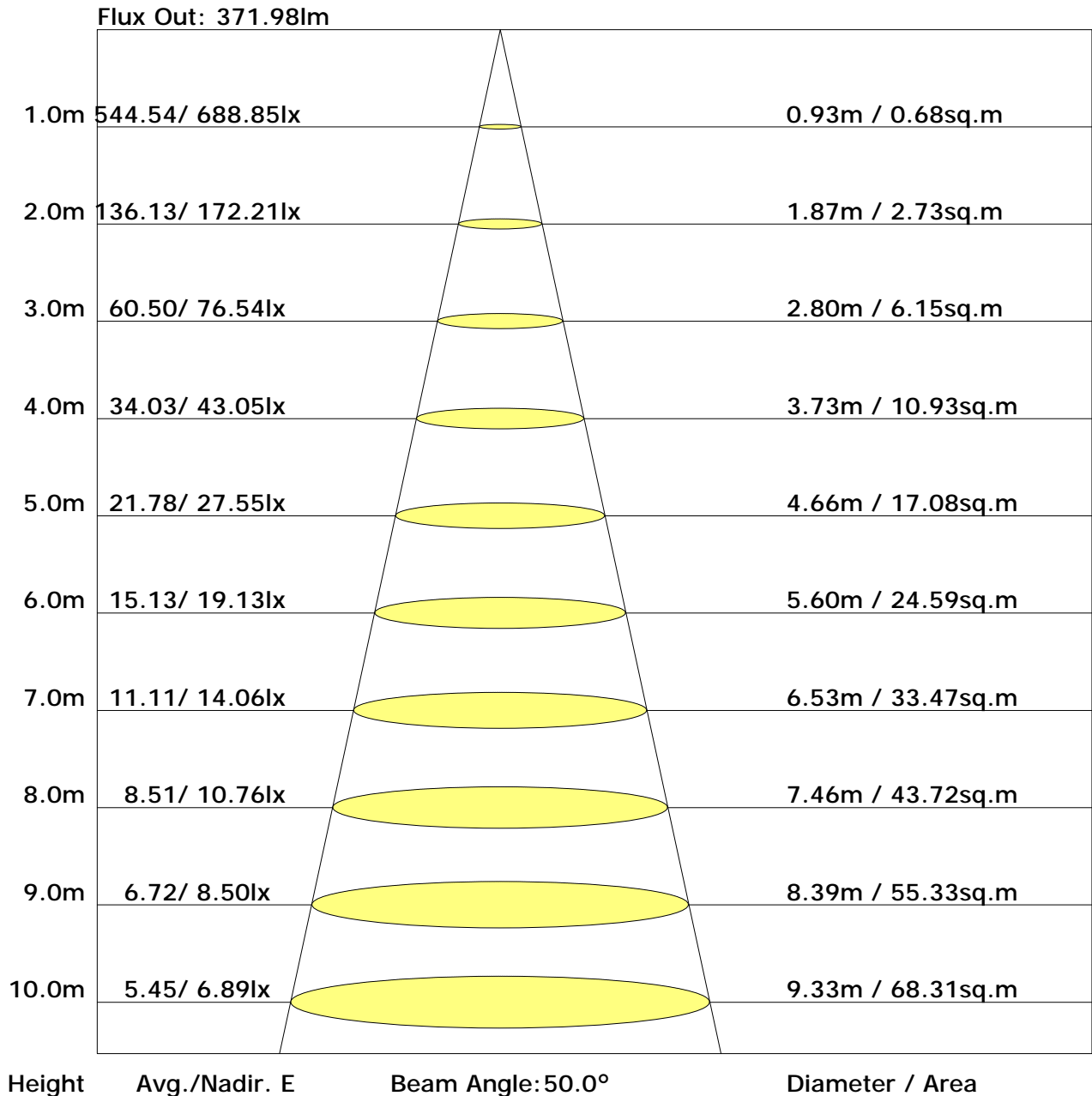
Unit: lm

		Orbit: m1																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Vertical plane	-90	0.0	0.1	0.3	0.4	0.6	0.8	0.9	0.9	0.9	0.8	0.6	0.4	0.2	0.1	0.1	0.0	0.0	0.0	7.1	0.0	
	-80	0.0	0.2	0.6	1.1	1.8	2.5	3.1	3.4	3.5	3.3	2.7	2.0	1.3	0.7	0.3	0.1	0.0	0.0	26.7	21.4	
	-70	0.1	0.4	1.0	2.0	3.2	4.5	5.6	6.3	6.6	6.3	5.5	4.4	3.1	1.8	0.9	0.3	0.1	0.0	52.0	50.0	
	-60	0.1	0.5	1.5	2.9	4.6	6.5	8.1	9.2	9.7	9.4	8.3	6.8	5.0	3.1	1.6	0.6	0.1	0.0	77.9	76.7	
	-50	0.1	0.7	1.9	3.7	6.0	8.3	10.5	12.0	12.7	12.3	11.0	9.0	6.7	4.3	2.3	0.9	0.2	0.0	102.6	101.9	
	-40	0.1	0.8	2.2	4.4	7.1	10.0	12.7	14.6	15.4	15.1	13.5	11.1	8.3	5.4	3.0	1.2	0.3	0.0	125.2	124.7	
	-30	0.1	0.9	2.5	5.0	8.1	11.4	14.5	16.8	17.9	17.4	15.6	12.8	9.5	6.4	3.6	1.5	0.3	0.0	144.3	143.9	
	-20	0.1	0.9	2.7	5.4	8.8	12.4	15.9	18.5	19.7	19.1	17.1	14.1	10.5	7.1	4.0	1.7	0.4	0.0	158.4	158.0	
	-10	0.1	1.0	2.8	5.6	9.1	13.0	16.6	19.4	20.7	20.1	18.1	14.9	11.1	7.4	4.2	1.8	0.4	0.0	166.3	165.9	
	0	0.1	1.0	2.8	5.6	9.1	13.0	16.6	19.3	20.6	20.2	18.2	14.9	11.2	7.4	4.2	1.8	0.4	0.0	166.5	166.1	
10	0.1	0.9	2.7	5.4	8.8	12.4	15.9	18.4	19.6	19.2	17.3	14.2	10.6	7.1	4.0	1.7	0.4	0.0	158.9	158.5		
20	0.1	0.9	2.5	5.1	8.1	11.4	14.5	16.8	17.8	17.4	15.7	12.9	9.7	6.4	3.6	1.5	0.3	0.0	144.9	144.4		
30	0.1	0.8	2.3	4.5	7.2	10.0	12.7	14.6	15.4	15.1	13.5	11.2	8.4	5.5	3.1	1.3	0.3	0.0	125.7	125.1		
40	0.1	0.7	1.9	3.8	6.0	8.4	10.5	12.0	12.6	12.3	11.0	9.1	6.8	4.4	2.4	0.9	0.2	0.0	102.9	102.1		
50	0.1	0.5	1.5	2.9	4.7	6.5	8.1	9.2	9.6	9.3	8.3	6.8	5.0	3.1	1.6	0.6	0.1	0.0	77.8	76.7		
60	0.1	0.4	1.0	2.0	3.2	4.5	5.6	6.3	6.5	6.2	5.4	4.3	3.1	1.8	0.9	0.3	0.1	0.0	51.7	49.8		
70	0.0	0.2	0.6	1.2	1.8	2.5	3.0	3.4	3.4	3.2	2.6	2.0	1.3	0.7	0.3	0.1	0.0	0.0	26.4	21.0		
80	0.0	0.1	0.3	0.5	0.6	0.8	0.9	0.9	0.8	0.7	0.5	0.4	0.2	0.1	0.1	0.0	0.0	0.0	7.1	0.0		
90	1.6	11.0	31.2	61.5	98.8	138.8	175.6	201.9	213.5	207.4	185.0	151.2	111.8	73.1	39.9	16.3	3.6	0.2	1722			
Flux(E)	0.0	8.6	29.1	59.5	96.8	136.9	173.7	200.0	211.6	205.5	183.0	149.1	109.7	70.8	37.5	13.5	0.6	0.0		1686		
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: 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	15.3	16.9	15.7	17.2	17.6	15.4	17.0	15.8	17.3	17.7
3H	16.4	17.8	16.8	18.2	18.5	16.7	18.1	17.1	18.4	18.8
4H	16.6	17.9	17.0	18.3	18.7	17.0	18.4	17.5	18.7	19.2
6H	16.7	17.9	17.1	18.3	18.7	17.2	18.5	17.7	18.9	19.3
8H	16.6	17.8	17.1	18.2	18.7	17.3	18.4	17.7	18.8	19.3
12H	16.6	17.7	17.1	18.2	18.6	17.3	18.4	17.7	18.8	19.2
X=4H Y=2H	15.6	17.0	16.0	17.3	17.7	15.9	17.3	16.3	17.6	18.0
3H	16.8	17.9	17.2	18.3	18.8	17.4	18.5	17.8	18.9	19.3
4H	17.1	18.1	17.5	18.5	19.0	17.8	18.8	18.3	19.3	19.7
6H	17.1	18.0	17.6	18.5	19.0	18.1	18.9	18.5	19.4	19.9
8H	17.1	17.9	17.6	18.4	18.9	18.1	18.9	18.6	19.4	19.9
12H	17.1	17.8	17.6	18.3	18.8	18.1	18.9	18.6	19.4	19.9
X=8H Y=4H	17.1	17.9	17.6	18.4	18.9	18.0	18.8	18.5	19.3	19.8
6H	17.2	17.9	17.7	18.4	18.9	18.3	19.0	18.8	19.5	20.0
8H	17.2	17.8	17.7	18.3	18.8	18.4	19.0	18.9	19.5	20.0
12H	17.2	17.7	17.7	18.2	18.8	18.4	18.9	18.9	19.5	20.0
X=12H Y=4H	17.1	17.8	17.6	18.3	18.8	18.0	18.7	18.5	19.2	19.7
6H	17.2	17.8	17.7	18.3	18.8	18.3	18.9	18.9	19.4	20.0
8H	17.2	17.7	17.7	18.2	18.8	18.4	18.9	18.9	19.5	20.0

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 = 1.25								
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	0.59	0.69	0.76	0.81	0.88	0.93	0.96	1.01	1.04
	0.30		0.51	0.61	0.69	0.74	0.82	0.88	0.92	0.97	1.00
	0.20		0.45	0.56	0.63	0.69	0.77	0.83	0.88	0.93	0.97
0.50	0.50	0.20	0.57	0.67	0.73	0.78	0.85	0.89	0.93	0.97	0.99
	0.30		0.50	0.60	0.67	0.73	0.80	0.85	0.89	0.93	0.96
	0.20		0.45	0.55	0.62	0.68	0.76	0.81	0.85	0.91	0.94
0.30	0.50	0.20	0.55	0.65	0.71	0.76	0.82	0.86	0.89	0.93	0.95
	0.30		0.49	0.59	0.66	0.71	0.78	0.82	0.86	0.90	0.93
	0.20		0.45	0.54	0.61	0.67	0.74	0.79	0.83	0.88	0.91
0.00	0.00	0.00	0.42	0.52	0.59	0.64	0.71	0.75	0.79	0.83	0.86
Rating: 25W 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 = 1.25									
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	0.96	0.79	0.67	0.58	0.46	0.39	0.33	0.25	0.21	
	0.30		0.80	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.69	0.59	0.52	0.46	0.38	0.33	0.28	0.23	0.19	
0.50	0.50	0.20	0.93	0.76	0.64	0.56	0.44	0.40	0.31	0.24	0.20	
	0.30		0.78	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.68	0.58	0.51	0.45	0.37	0.32	0.27	0.22	0.18	
0.30	0.50	0.20	0.90	0.73	0.62	0.53	0.42	0.35	0.30	0.23	0.19	
	0.30		0.77	0.64	0.55	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.67	0.57	0.50	0.44	0.36	0.31	0.26	0.21	0.17	
0.00	0.00	0.00	0.57	0.47	0.40	0.35	0.28	0.24	0.20	0.16	0.13	
Rating: 25W 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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Rating: 25W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											