

Report No.: 01

Test Time: 2016/9/2 17:01

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linearlyte

Luminaire Description: PS1 3500K SO

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.069 A

Power Factor: 0.934

Luminous Width (mm):

Voltage: 219.7 V

Power: 14.09 W

Photometric Results

CIE Class: Direct

Measurement Flux: 863 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(50%): H103.9

Vertical Diffuse Angle(50%): V106.3

Luminaire Efficacy Rating (LER): 61

Max. Intensity: 322.81 cd

Total Rated Lamp Lumens: 863.0 lm

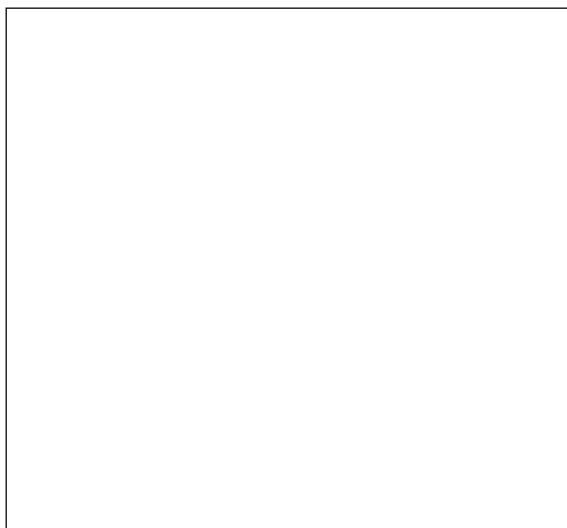
Efficiency: 100%

Upward Ratio: 2%

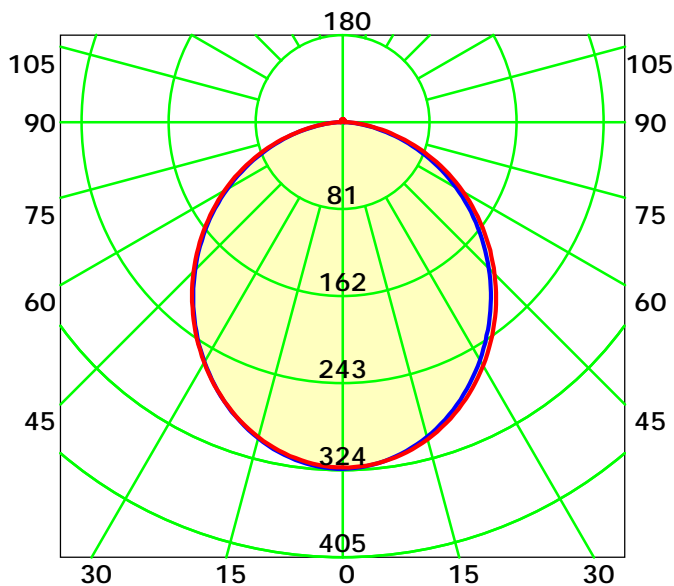
Central Intensity: 322.71 cd

Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 105.1° 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

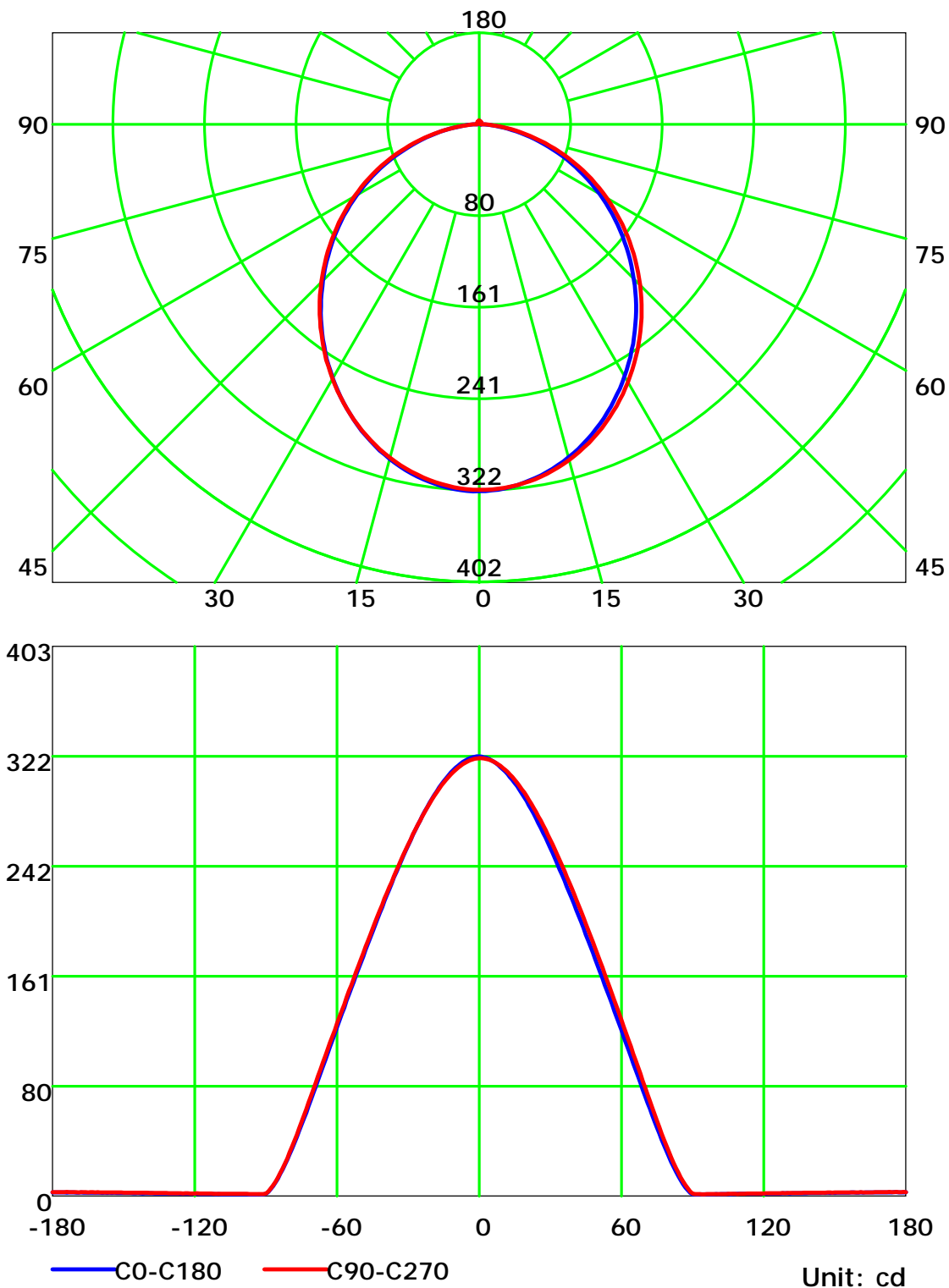
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

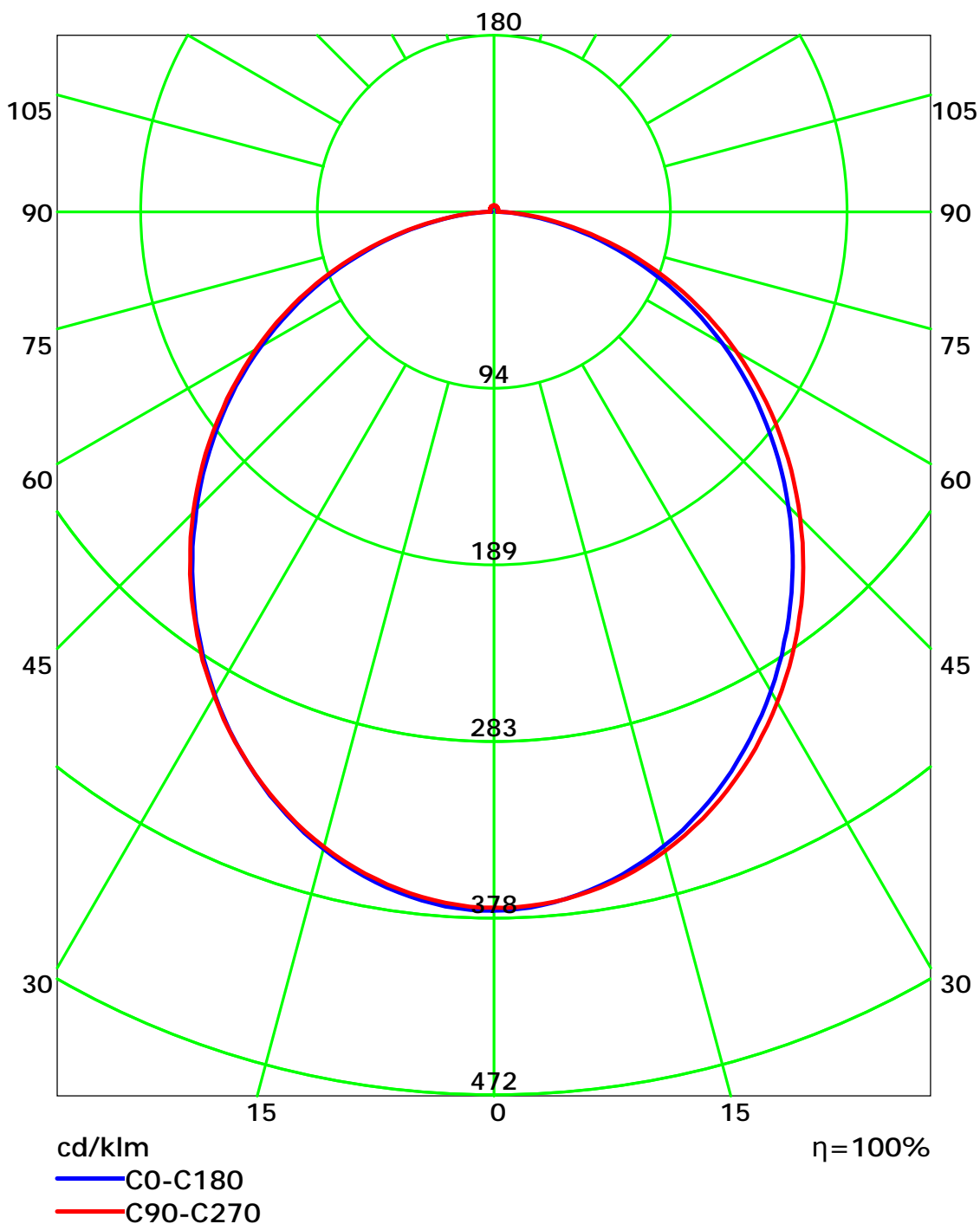
Luminous Intensity Distribution Curve



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:

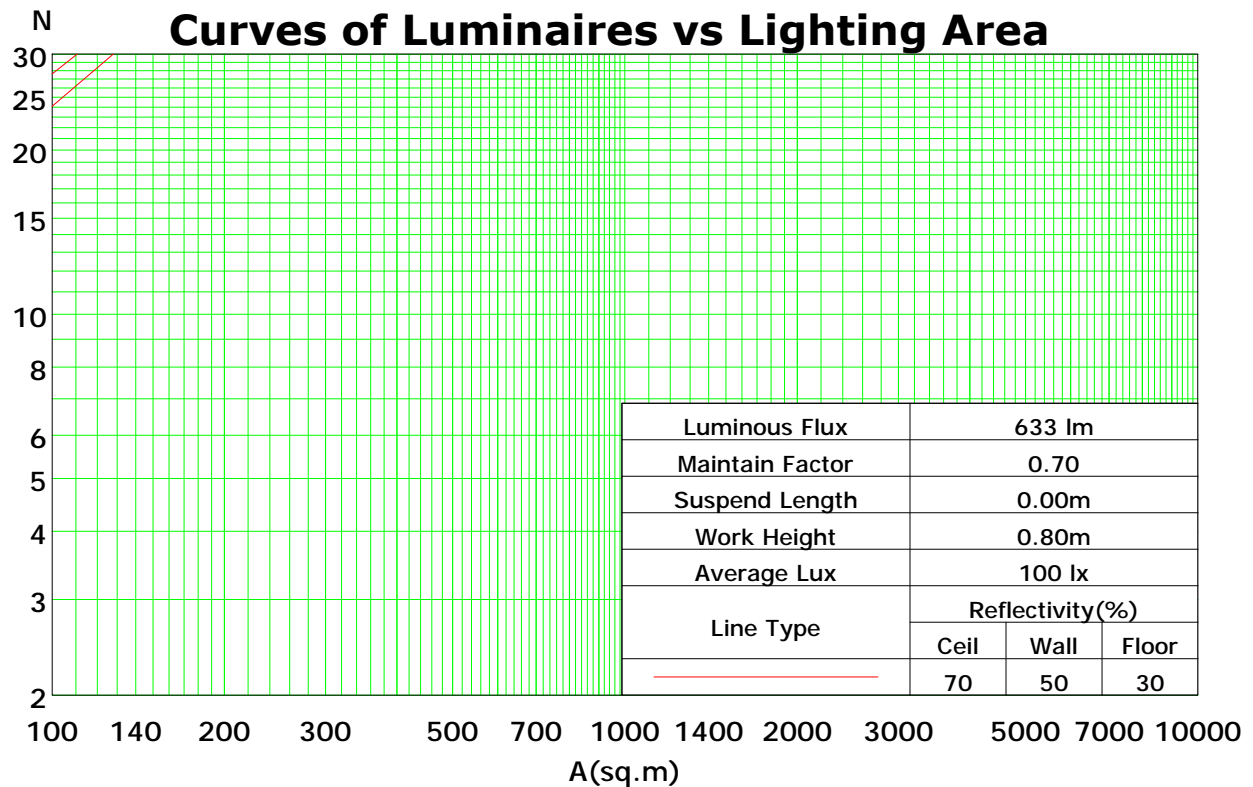
Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	98
1	109	104	100	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83
2	99	91	84	78	96	89	82	77	85	80	75	81	77	73	78	74	71	69
3	90	80	72	65	88	78	71	64	75	68	63	72	66	62	69	65	61	58
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	56	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	45	43
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	42	36	32	30
9	57	43	35	30	55	43	35	30	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	40	32	27	38	32	27	37	31	27	36	31	26	25

Spacing Criteria (0-180): 1.19

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.31



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

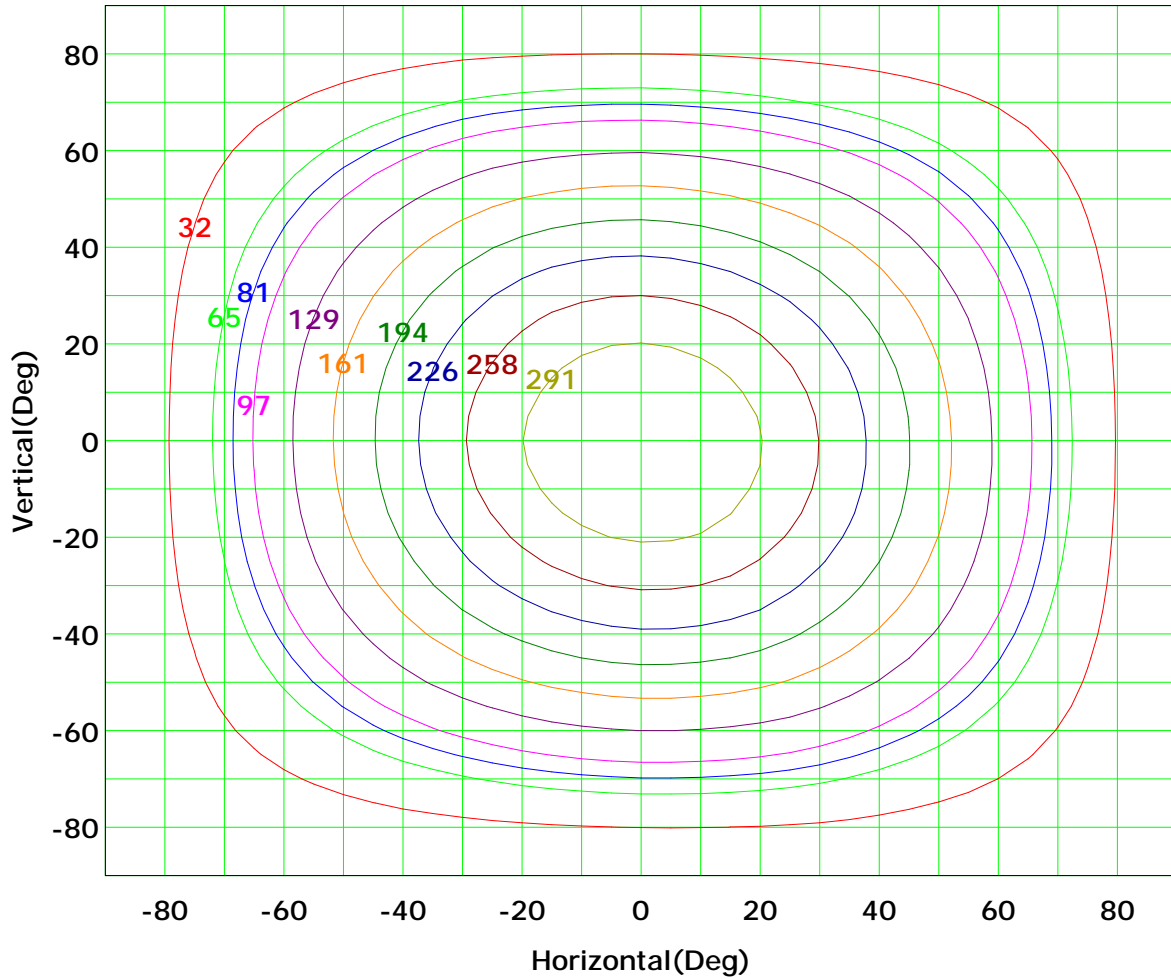
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 323 cd

(10%): 32 cd	(20%): 65 cd
(25%): 81 cd	(30%): 97 cd
(40%): 129 cd	(50%): 161 cd
(60%): 194 cd	(70%): 226 cd
(80%): 258 cd	(90%): 291 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

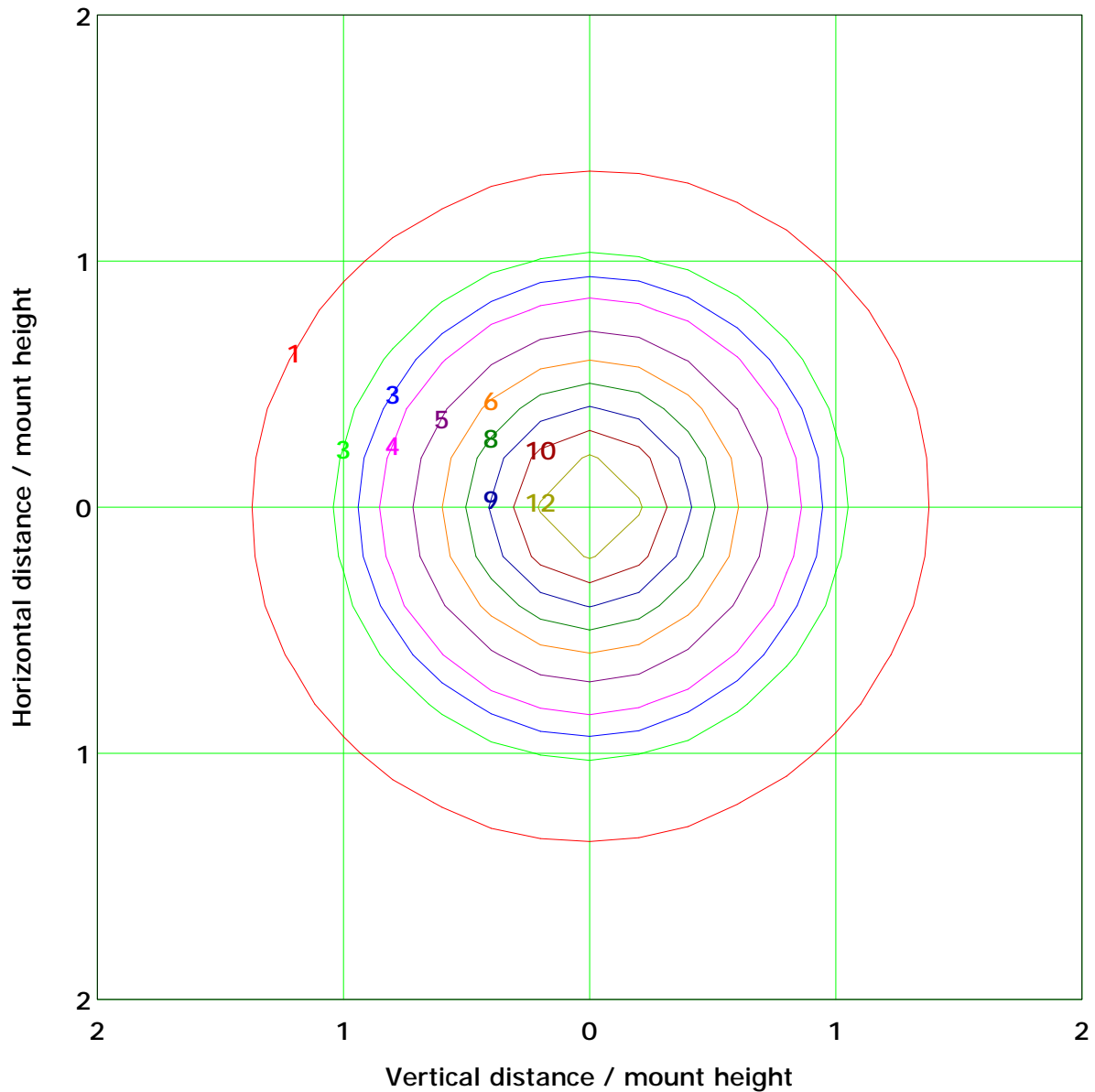
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 12.9 lx	
(10%):	1.3 lx	(20%):	2.6 lx
(25%):	3.2 lx	(30%):	3.9 lx
(40%):	5.2 lx	(50%):	6.5 lx
(60%):	7.7 lx	(70%):	9.0 lx
(80%):	10.3 lx	(90%):	11.6 lx

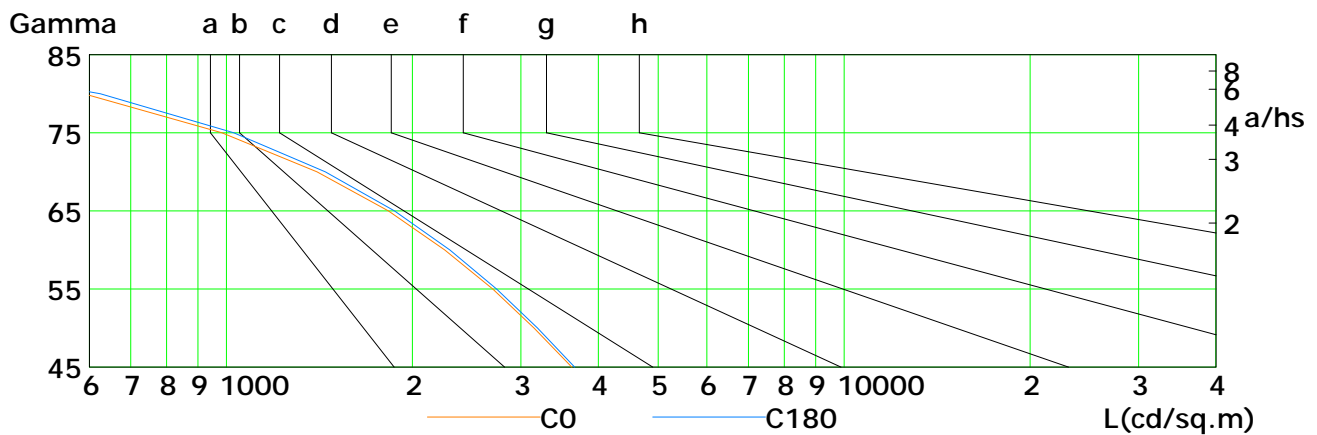
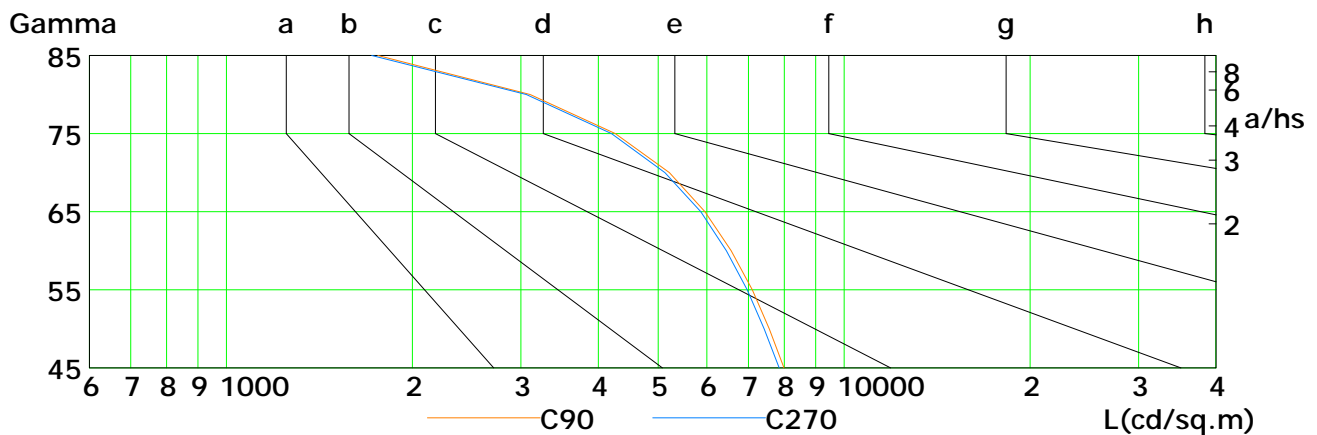
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

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	3624	3148	2699	2258	1829	1402	984	589	253
C90	7993	7567	7100	6570	5954	5213	4263	3102	1760
C180	3666	3190	2740	2300	1873	1446	1028	626	276
C270	7855	7424	6966	6452	5861	5130	4202	3062	1720

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

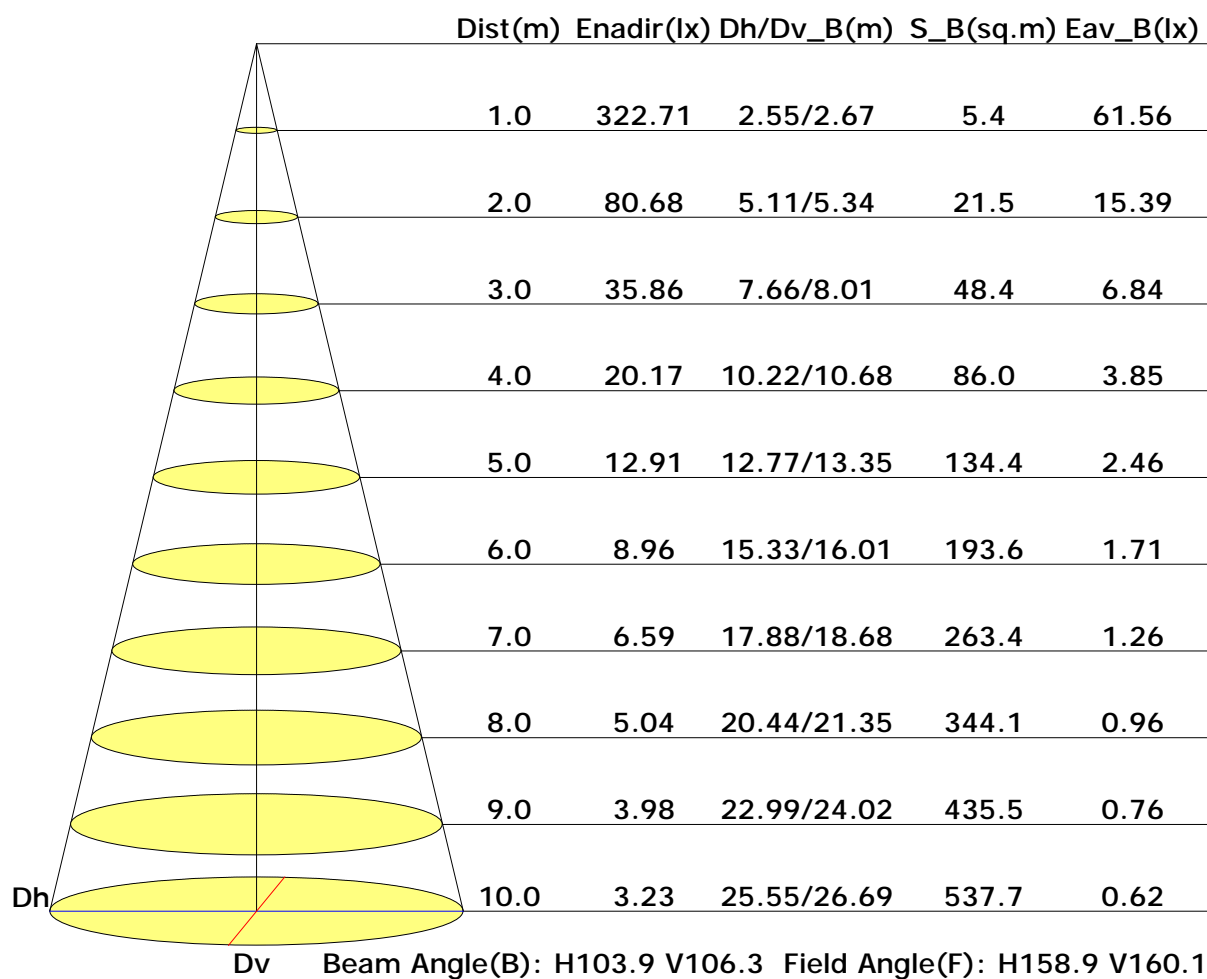
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

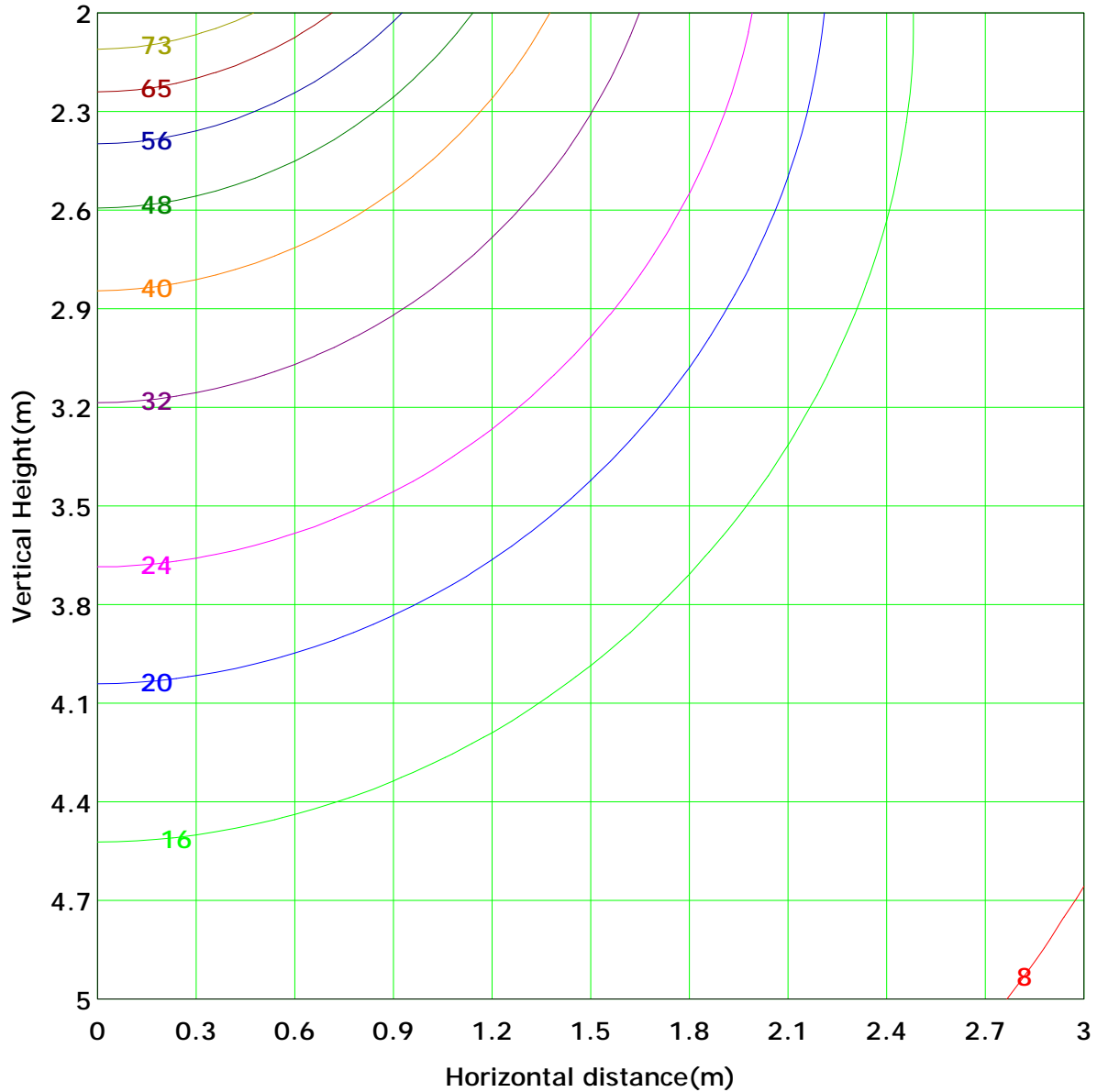
Illuminance at a Distance



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: 80.7 lx
(10%): 8.1 lx	(20%): 16.1 lx	
(25%): 20.2 lx	(30%): 24.2 lx	
(40%): 32.3 lx	(50%): 40.3 lx	
(60%): 48.4 lx	(70%): 56.5 lx	
(80%): 64.5 lx	(90%): 72.6 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

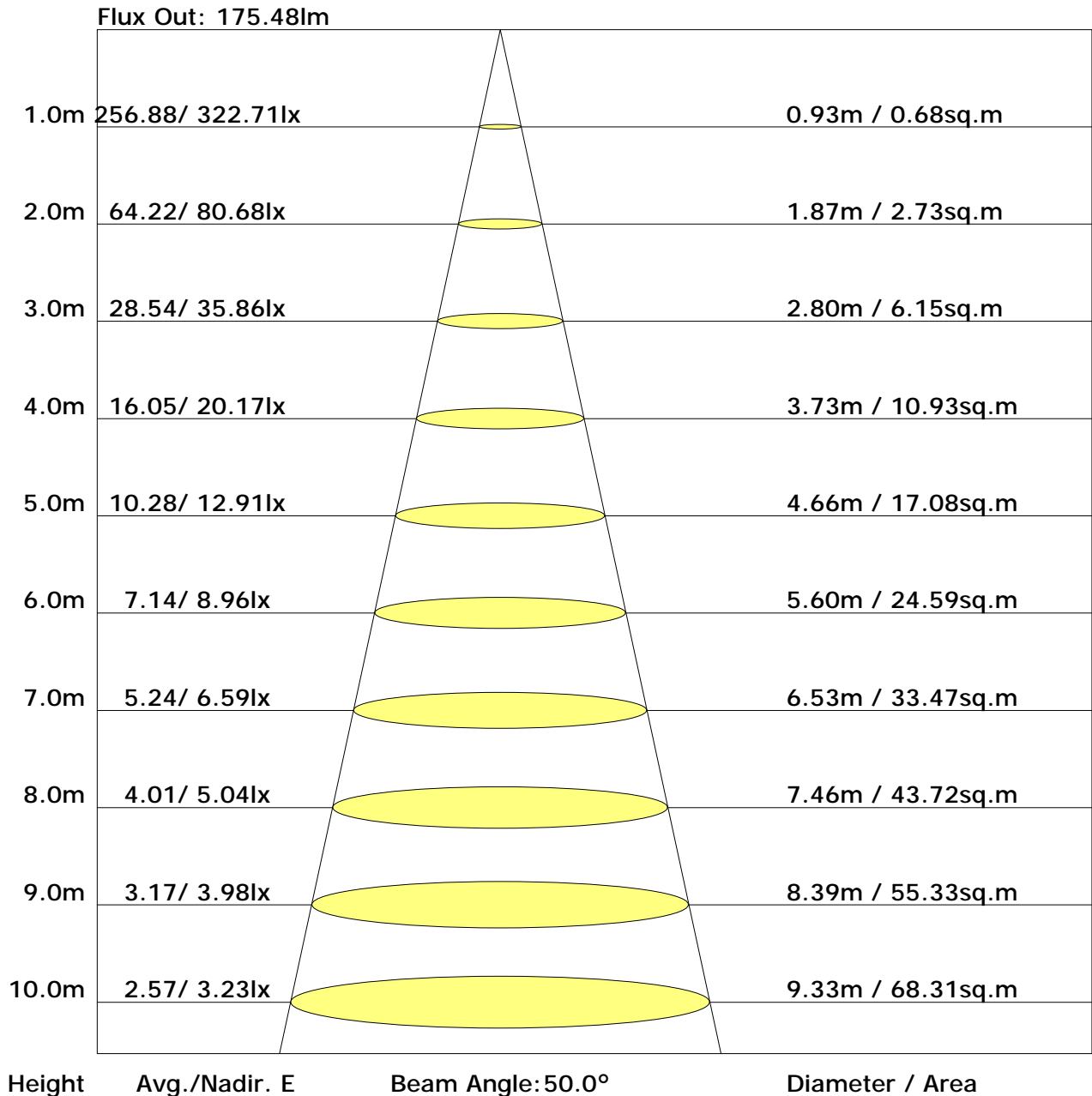
Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Orbit, m	
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	3.9	0.0
		0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.5	1.6	1.7	1.6	1.4	1.1	0.7	0.4	0.2	0.1	0.0	0.0	14.0	11.5
-60	0.0	0.1	0.4	0.8	1.3	1.9	2.4	2.8	3.1	3.1	2.9	2.5	2.0	1.4	0.8	0.4	0.1	0.0	0.0	26.3	25.6	
-50	0.0	0.2	0.6	1.2	2.0	2.8	3.6	4.2	4.5	4.3	4.3	3.7	2.9	2.1	1.3	0.6	0.2	0.0	0.0	38.8	38.4	
-40	0.0	0.3	0.8	1.6	2.6	3.7	4.7	5.4	5.9	5.5	4.8	3.8	2.7	1.7	0.8	0.3	0.0	0.0	0.0	50.6	50.4	
-30	0.0	0.3	1.0	2.0	3.2	4.5	5.7	6.6	7.2	7.2	6.7	5.8	4.5	3.2	2.0	1.0	0.3	0.0	0.0	61.3	61.1	
-20	0.0	0.4	1.1	2.3	3.6	5.1	6.5	7.6	8.3	8.3	7.7	6.6	5.2	3.7	2.3	1.1	0.4	0.0	0.0	70.2	70.1	
-10	0.0	0.4	1.2	2.5	4.0	5.6	7.2	8.4	9.1	9.1	8.4	7.2	5.6	4.0	2.5	1.2	0.4	0.0	0.0	76.8	76.7	
0	0.1	0.4	1.3	2.6	4.2	5.9	7.5	8.8	9.6	9.6	8.8	7.5	5.8	4.1	2.5	1.3	0.4	0.0	0.0	80.5	80.3	
10	0.1	0.4	1.3	2.6	4.2	5.9	7.6	8.9	9.6	9.6	8.8	7.5	5.8	4.1	2.5	1.3	0.4	0.0	0.0	80.6	80.5	
20	0.0	0.4	1.3	2.5	4.0	5.7	7.3	8.5	9.2	9.1	8.4	7.1	5.6	3.9	2.4	1.2	0.4	0.0	0.0	77.3	77.2	
30	0.0	0.4	1.2	2.3	3.8	5.3	6.7	7.8	8.4	8.3	7.7	6.5	5.1	3.6	2.2	1.1	0.4	0.0	0.0	70.9	70.8	
40	0.0	0.3	1.0	2.1	3.3	4.7	5.9	6.9	7.3	7.3	6.7	5.7	4.5	3.2	2.0	1.0	0.3	0.0	0.0	62.1	61.9	
50	0.0	0.3	0.9	1.7	2.8	3.9	4.9	5.7	6.0	6.0	5.5	4.7	3.7	2.6	1.6	0.8	0.3	0.0	0.0	51.4	51.2	
60	0.0	0.2	0.7	1.3	2.2	3.0	3.8	4.4	4.6	4.6	4.2	3.6	2.8	2.0	1.2	0.6	0.2	0.0	0.0	39.5	39.1	
70	0.0	0.1	0.4	0.9	1.5	2.1	2.6	3.0	3.2	3.1	2.9	2.4	1.9	1.3	0.8	0.4	0.1	0.0	0.0	26.8	26.1	
80	0.0	0.1	0.2	0.5	0.8	1.1	1.4	1.6	1.7	1.7	1.5	1.3	1.0	0.7	0.4	0.2	0.1	0.0	0.0	14.3	12.0	
90	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.4	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	4.0	0.0	
Flux(T)	0.6	4.6	13.9	27.7	44.6	62.8	79.8	93.0	100.2	100.0	92.4	79.0	61.9	43.8	27.0	13.4	4.4	0.5	849			
Flux(E)	0.0	3.5	12.9	26.7	43.7	61.8	78.9	92.1	99.3	99.1	91.5	78.0	61.0	42.9	26.1	12.4	3.2	0.0			833	
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
		Horizontal plane																				

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



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	17.4	18.9	17.7	19.3	19.6	15.9	17.5	16.3	17.9	18.2
3H	19.0	20.4	19.4	20.8	21.2	17.2	18.7	17.6	19.0	19.4
4H	19.5	20.9	19.9	21.2	21.6	17.6	19.0	18.1	19.4	19.8
6H	19.9	21.1	20.3	21.5	21.9	17.8	19.1	18.3	19.5	19.9
8H	19.9	21.1	20.4	21.5	22.0	17.9	19.1	18.3	19.5	19.9
12H	20.0	21.1	20.4	21.5	22.0	17.9	19.0	18.3	19.4	19.9
X=4H Y=2H	17.7	19.0	18.1	19.4	19.8	16.5	17.9	16.9	18.2	18.6
3H	19.4	20.5	19.8	21.0	21.4	18.0	19.1	18.4	19.5	20.0
4H	20.0	21.1	20.5	21.5	22.0	18.5	19.5	18.9	19.9	20.4
6H	20.5	21.4	20.9	21.8	22.3	18.7	19.6	19.2	20.1	20.6
8H	20.6	21.4	21.1	21.9	22.4	18.8	19.6	19.3	20.1	20.6
12H	20.6	21.4	21.1	21.9	22.4	18.8	19.6	19.3	20.1	20.6
X=8H Y=4H	20.1	21.0	20.6	21.4	21.9	18.7	19.5	19.2	20.0	20.5
6H	20.6	21.3	21.1	21.8	22.3	19.0	19.7	19.5	20.2	20.7
8H	20.7	21.4	21.3	21.9	22.4	19.1	19.7	19.6	20.3	20.8
12H	20.8	21.4	21.4	21.9	22.5	19.2	19.7	19.7	20.2	20.8
X=12H Y=4H	20.1	20.9	20.6	21.4	21.9	18.7	19.4	19.2	19.9	20.4
6H	20.6	21.2	21.1	21.7	22.3	19.1	19.7	19.6	20.2	20.7
8H	20.7	21.3	21.3	21.8	22.4	19.2	19.7	19.7	20.2	20.8

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	0.57	0.67	0.75	0.80	0.87	0.92	0.96	1.00	1.03
	0.30		0.49	0.60	0.67	0.73	0.81	0.87	0.91	0.96	1.00
	0.20		0.44	0.54	0.62	0.68	0.76	0.82	0.86	0.92	0.96
0.50	0.50	0.20	0.56	0.65	0.72	0.77	0.84	0.88	0.92	0.96	0.99
	0.30		0.49	0.59	0.66	0.71	0.79	0.84	0.88	0.93	0.96
	0.20		0.43	0.54	0.61	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.54	0.63	0.70	0.74	0.81	0.85	0.88	0.92	0.94
	0.30		0.48	0.57	0.64	0.69	0.76	0.81	0.85	0.89	0.92
	0.20		0.43	0.53	0.60	0.65	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.41	0.50	0.57	0.62	0.69	0.74	0.77	0.82	0.85
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 = 1.25								
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	0.98	0.81	0.69	0.60	0.48	0.40	0.34	0.26	0.22
	0.30		0.82	0.69	0.60	0.53	0.43	0.37	0.32	0.25	0.21
	0.20		0.70	0.61	0.53	0.48	0.40	0.34	0.29	0.23	0.20
0.50	0.50	0.20	0.94	0.78	0.66	0.57	0.46	0.41	0.32	0.25	0.20
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20
	0.20		0.69	0.59	0.52	0.47	0.38	0.33	0.28	0.23	0.19
0.30	0.50	0.20	0.91	0.74	0.63	0.55	0.44	0.36	0.31	0.24	0.19
	0.30		0.78	0.66	0.56	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
0.00	0.00	0.00	0.58	0.49	0.42	0.37	0.30	0.25	0.21	0.17	0.14
<p>Rating: 14W 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(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	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.17	0.19	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
<p>Rating: 14W 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>												