

Report No.: 01

Test Time: 2016/9/2 17:45

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linearlyte

Luminaire Description: PS1 3500K HO

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.092 A

Power Factor: 0.935

Luminous Width (mm):

Voltage: 219.7 V

Power: 18.92 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1138.2 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H105.6

Vertical Diffuse Angle(50%): V104.2

Luminaire Efficacy Rating (LER): 60

Max. Intensity: 426.33 cd

Total Rated Lamp Lumens: 1138.2 lm

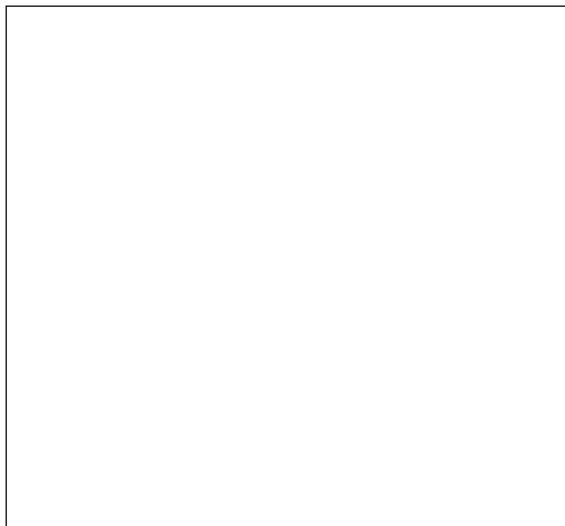
Efficiency: 100%

Upward Ratio: 1%

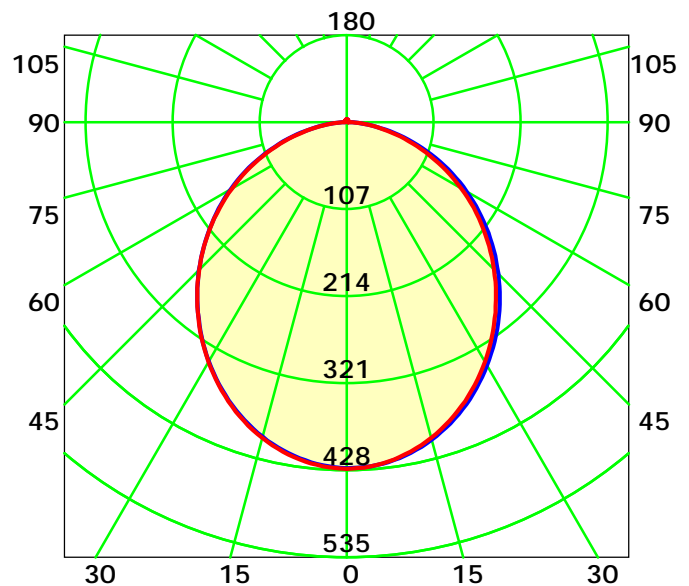
Central Intensity: 425.31 cd

Pos of Max. Intensity: H120 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 104.9° 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

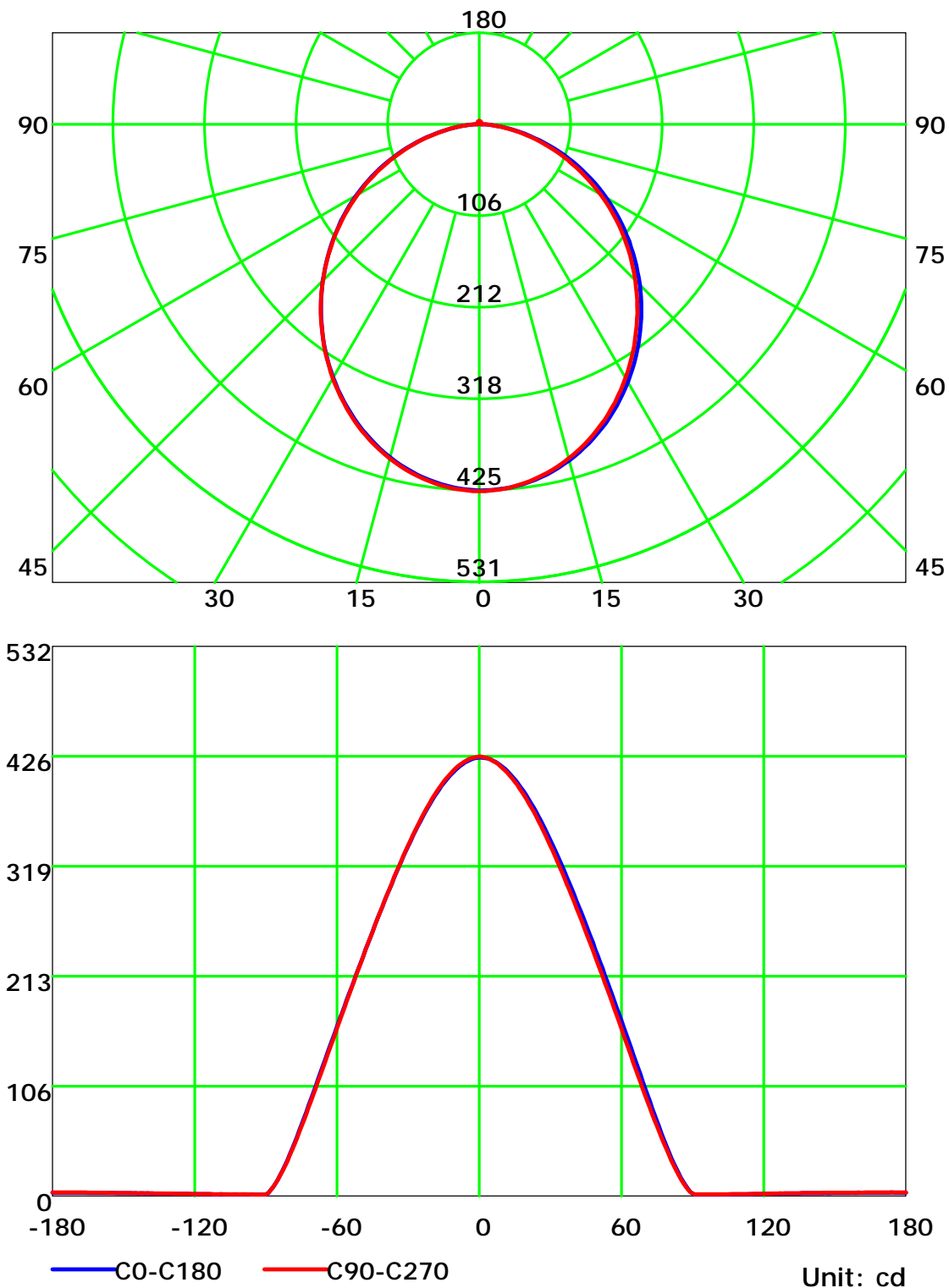
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

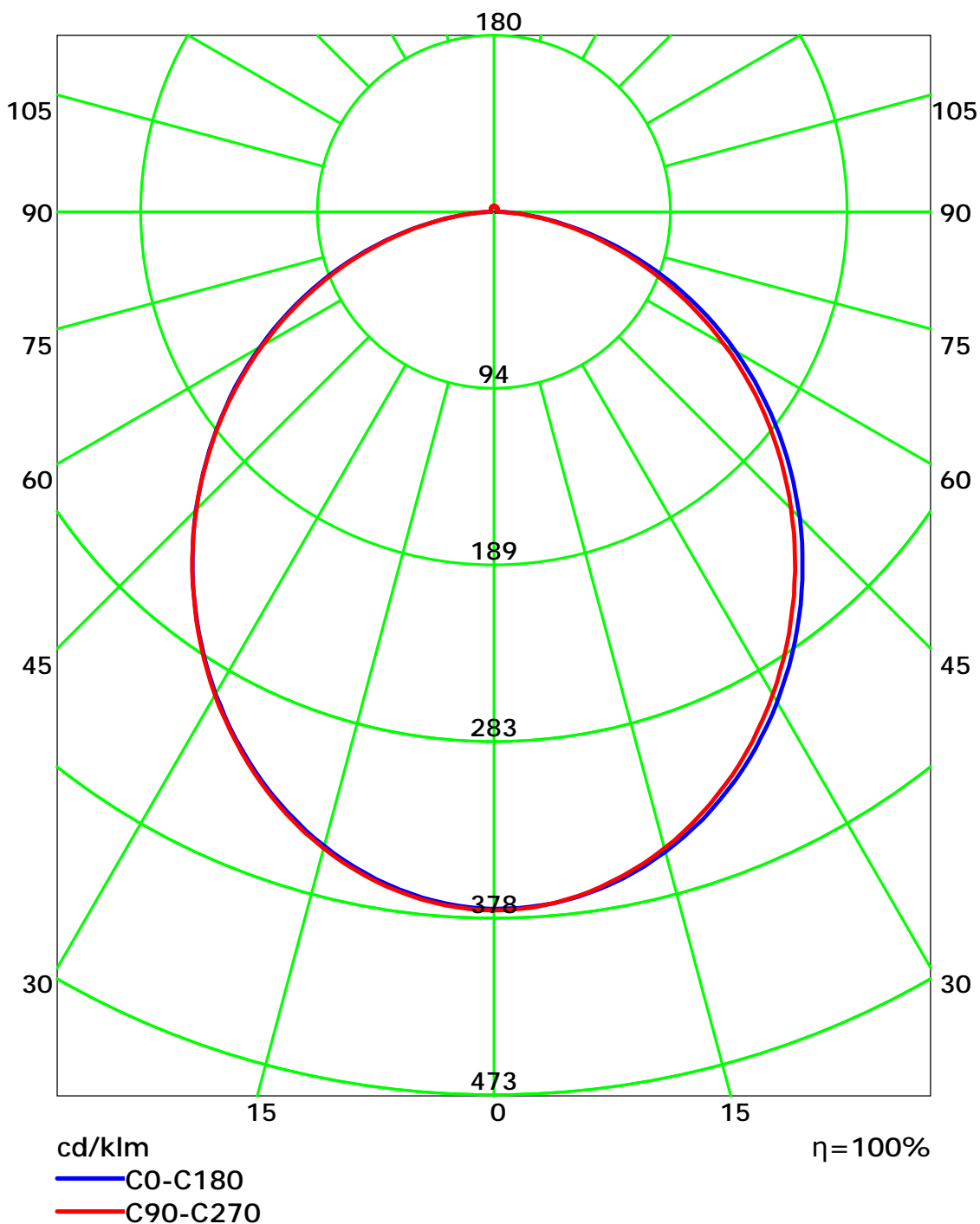
Luminous Intensity Distribution Curve



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:

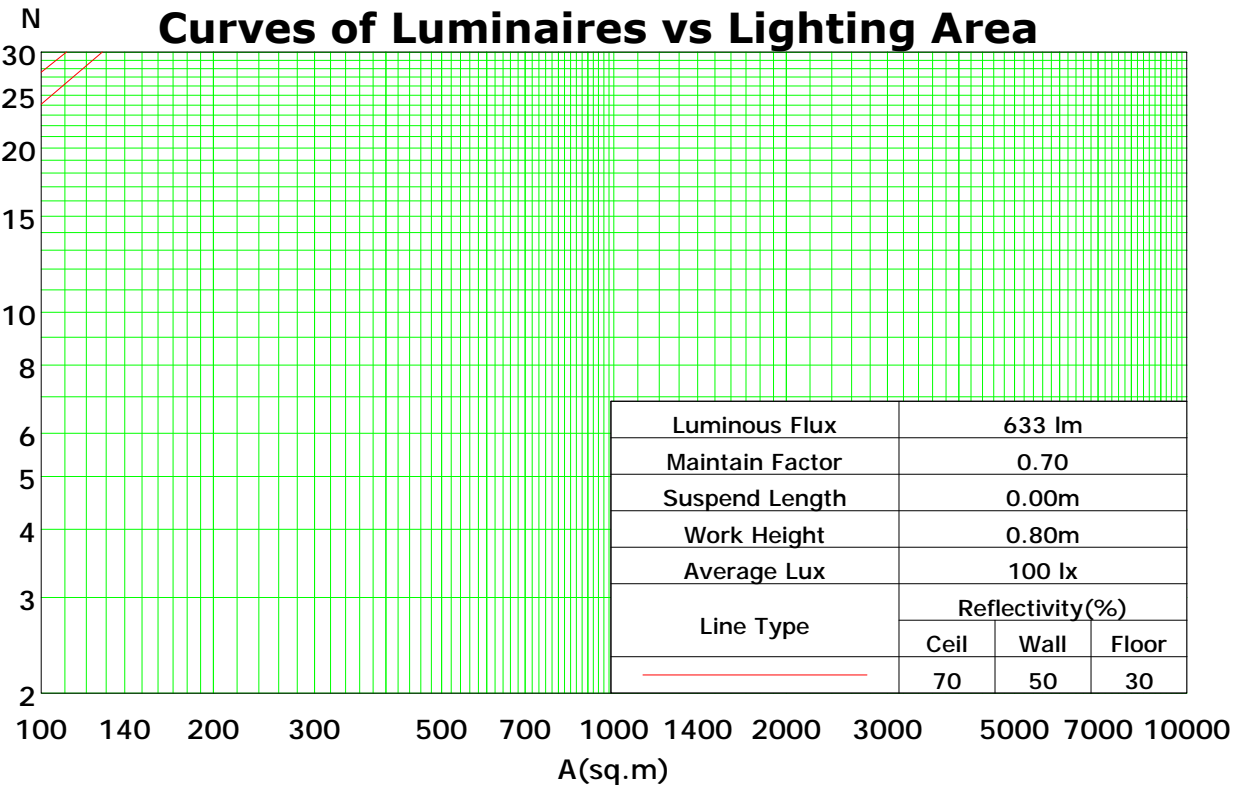
Coefficients Of Utilization - Zonal Cavity Method

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	99
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	75	71	69
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	69	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	48	60	53	47	58	51	46	56	50	46	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	39	33	45	38	33	44	37	32	43	37	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	39	32	27	37	31	27	37	31	26	25

Spacing Criteria (0-180): 1.20

Spacing Criteria (90-270): 1.19

Spacing Criteria (Diagonal): 1.32



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

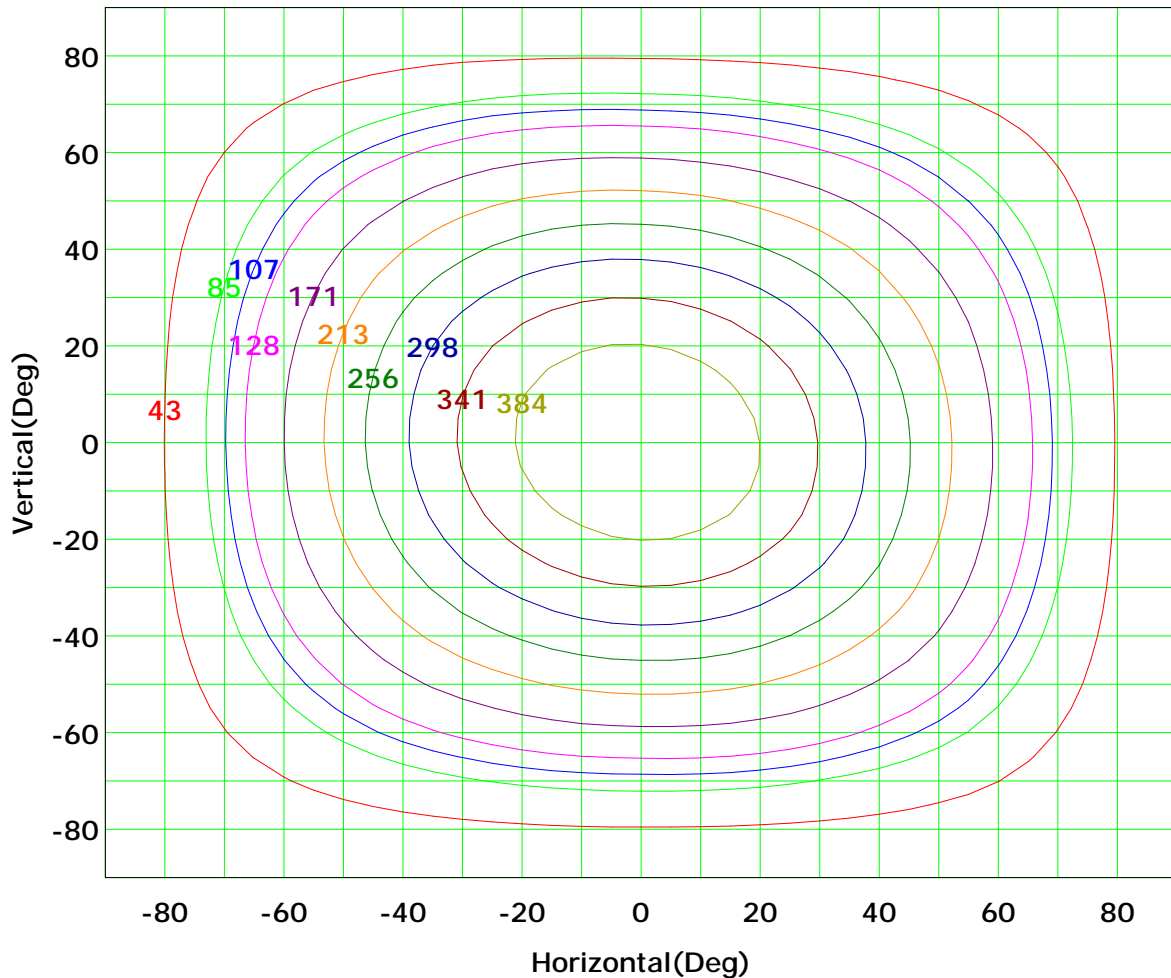
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 426 cd

(10%): 43 cd	(20%): 85 cd
(25%): 107 cd	(30%): 128 cd
(40%): 171 cd	(50%): 213 cd
(60%): 256 cd	(70%): 298 cd
(80%): 341 cd	(90%): 384 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

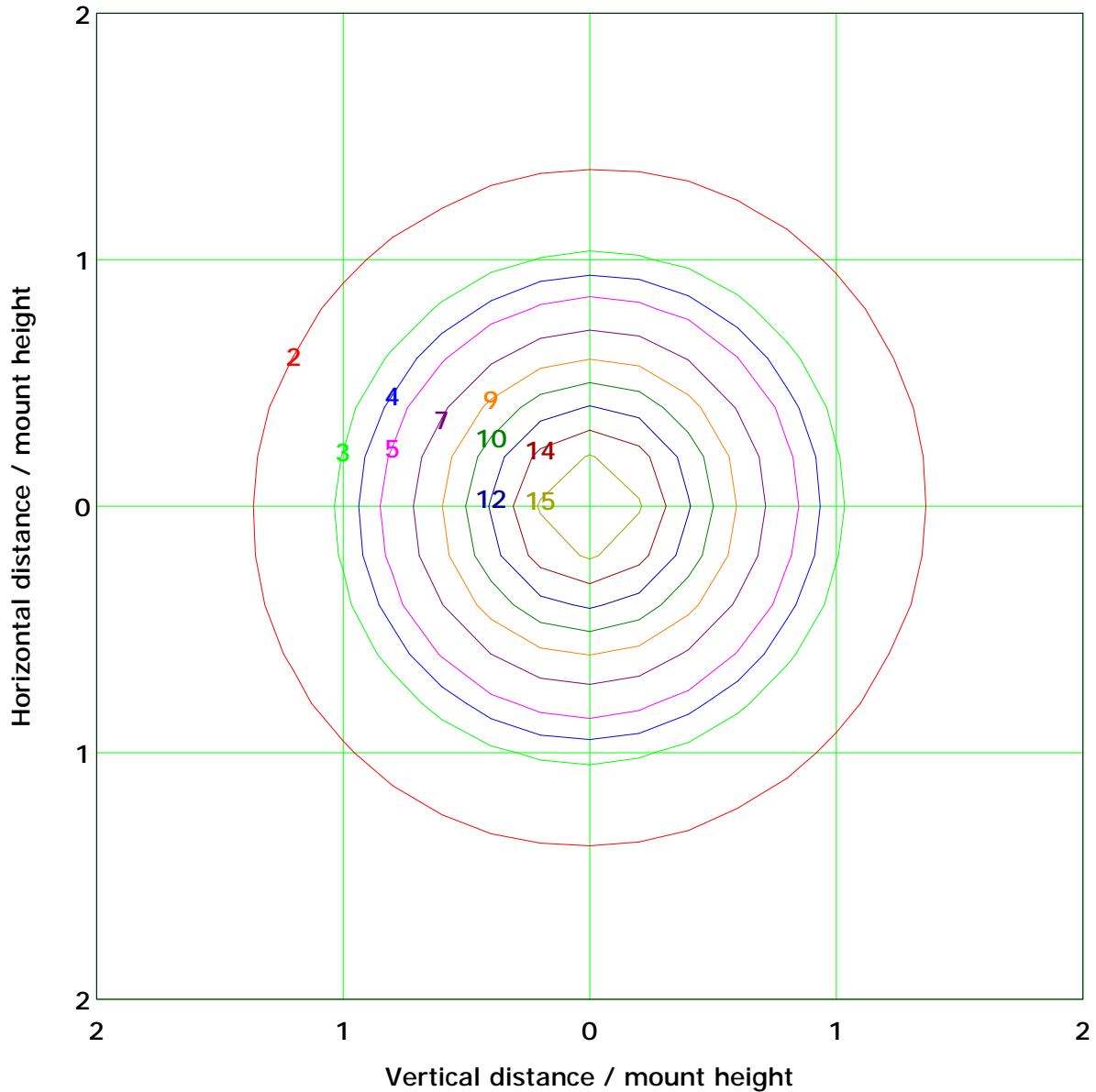
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 17.0 lx	
(10%): 1.7 lx	(20%): 3.4 lx
(25%): 4.3 lx	(30%): 5.1 lx
(40%): 6.8 lx	(50%): 8.5 lx
(60%): 10.2 lx	(70%): 11.9 lx
(80%): 13.6 lx	(90%): 15.3 lx

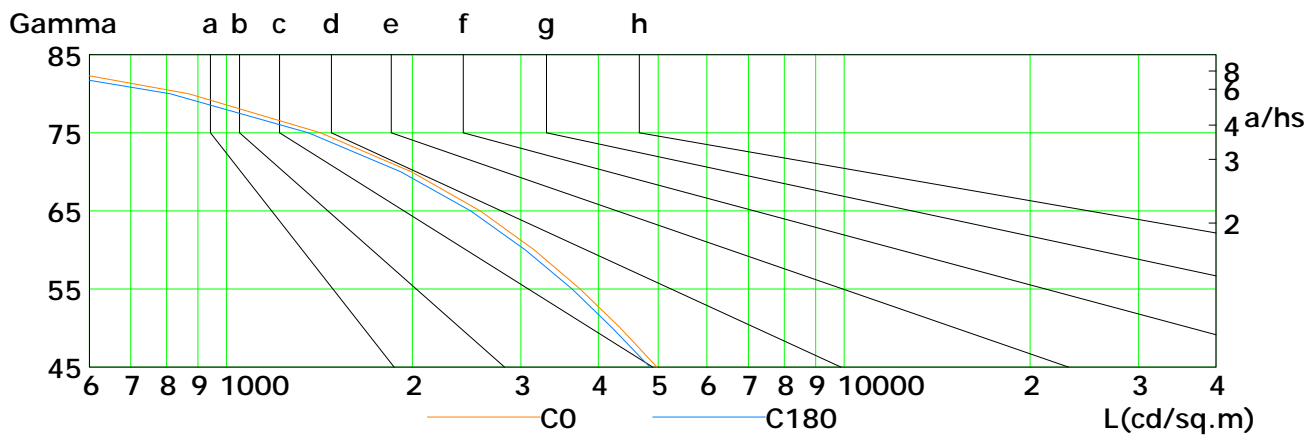
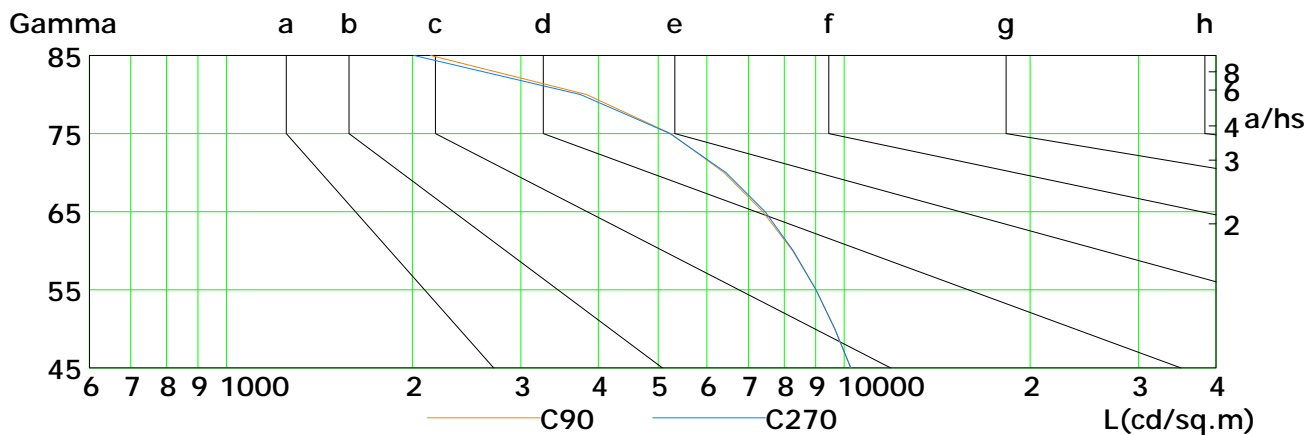
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

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	4977	4344	3738	3153	2576	1995	1421	869	391
C90	10241	9648	9013	8256	7392	6397	5242	3831	2143
C180	4848	4218	3630	3050	2486	1917	1357	811	345
C270	10255	9659	9012	8279	7454	6438	5227	3742	2013

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

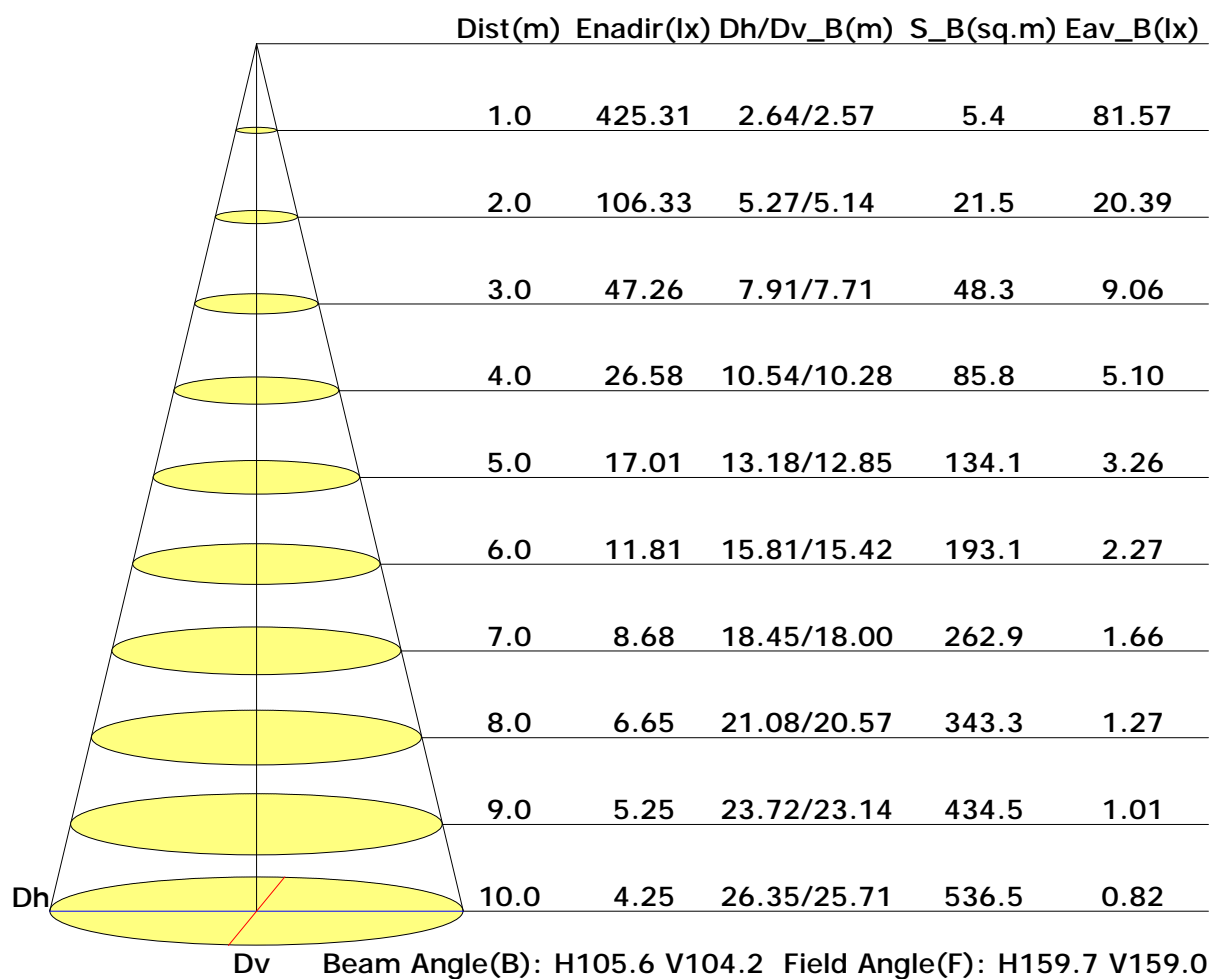
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

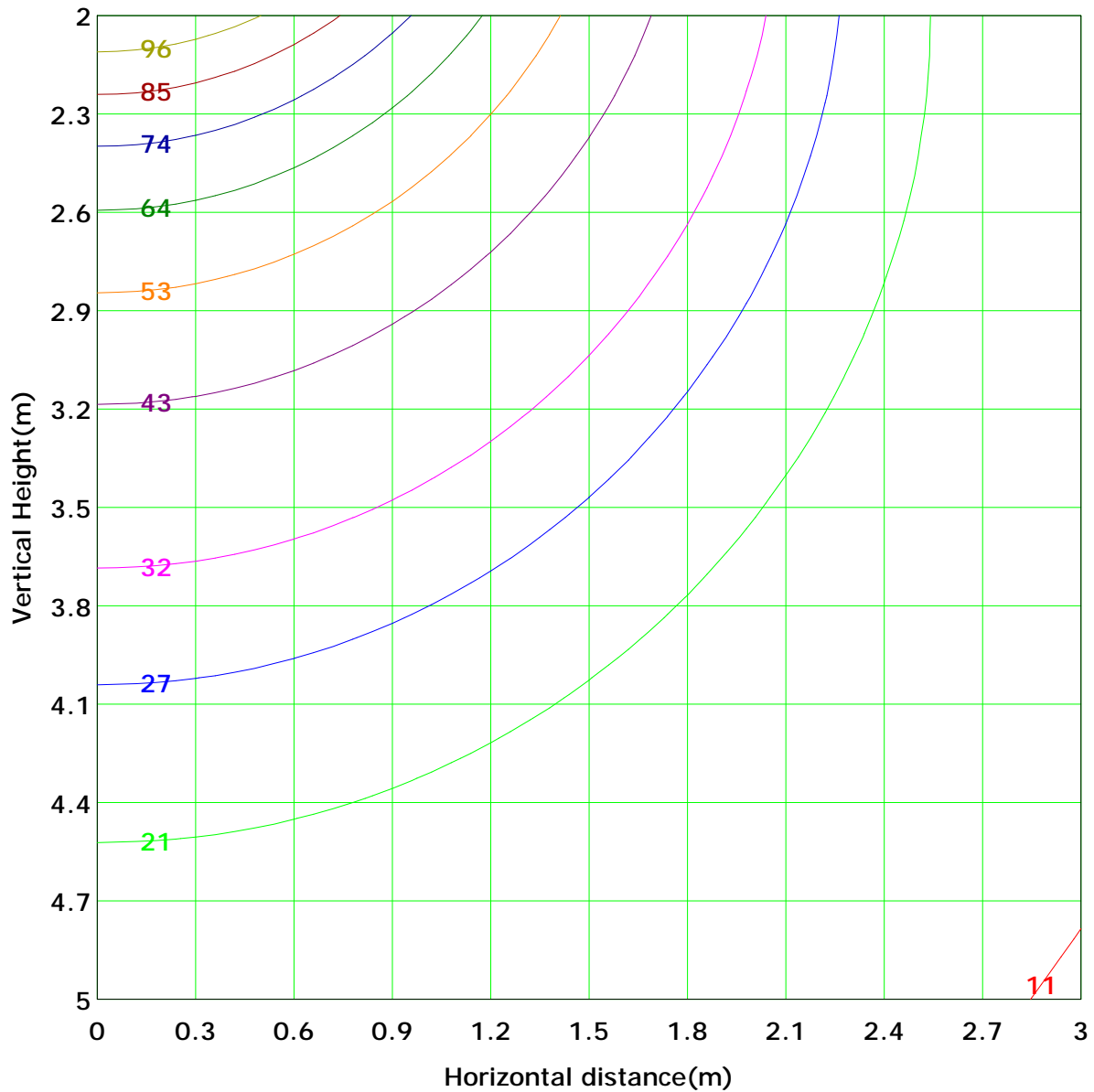
Illuminance at a Distance



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: 106.3 lx
(10%): 10.6 lx	(20%): 21.3 lx	
(25%): 26.6 lx	(30%): 31.9 lx	
(40%): 42.5 lx	(50%): 53.2 lx	
(60%): 63.8 lx	(70%): 74.4 lx	
(80%): 85.1 lx	(90%): 95.7 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:

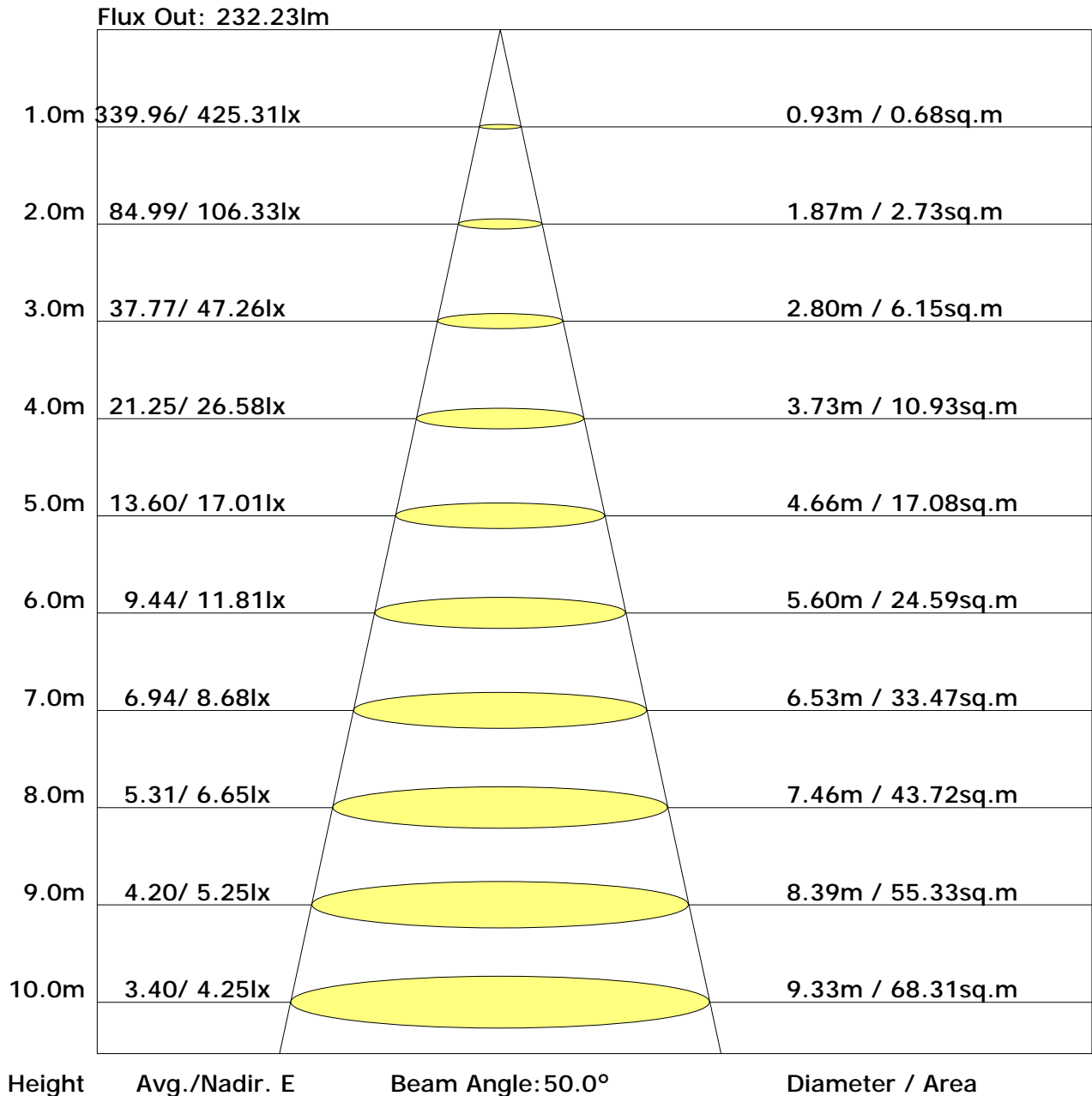


Area Flux Table

Unit: lm

		Orbit, m																				
-90	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	4.8	0.0
-80	0.0	0.1	0.3	0.5	0.9	1.3	1.6	1.9	2.0	2.1	2.0	1.8	1.4	1.0	0.6	0.3	0.1	0.0	0.0	17.9	14.2	
-70	0.0	0.2	0.5	1.1	1.7	2.4	3.1	3.6	3.9	4.0	3.8	3.3	2.7	1.9	1.2	0.6	0.2	0.0	0.0	34.3	33.4	
-60	0.0	0.3	0.8	1.6	2.6	3.6	4.6	5.4	5.8	5.9	5.6	4.9	4.0	2.9	1.8	0.9	0.3	0.0	0.0	51.1	50.7	
-50	0.0	0.4	1.1	2.1	3.4	4.8	6.1	7.1	7.7	7.8	7.4	6.4	5.2	3.7	2.4	1.2	0.4	0.0	0.0	67.1	66.8	
-40	0.0	0.4	1.3	2.6	4.2	5.8	7.4	8.7	9.4	9.5	8.9	7.8	6.2	4.5	2.8	1.4	0.5	0.1	0.1	81.6	81.4	
-30	0.1	0.5	1.5	3.0	4.8	6.7	8.6	10.0	10.9	11.0	10.3	8.9	7.1	5.1	3.2	1.6	0.5	0.1	0.1	93.8	93.6	
-20	0.1	0.5	1.6	3.3	5.2	7.4	9.4	11.0	12.0	12.1	11.3	9.7	7.7	5.5	3.4	1.7	0.6	0.1	0.1	102.7	102.5	
-10	0.1	0.6	1.7	3.4	5.5	7.7	9.9	11.6	12.6	12.7	11.8	10.1	8.0	5.7	3.5	1.8	0.6	0.1	0.1	107.4	107.3	
0	0.1	0.6	1.7	3.4	5.5	7.8	10.0	11.7	12.7	12.7	11.7	10.0	7.9	5.6	3.5	1.8	0.6	0.1	0.1	107.4	107.3	
10	0.1	0.6	1.7	3.3	5.4	7.6	9.6	11.2	12.1	12.0	11.1	9.5	7.5	5.4	3.4	1.7	0.6	0.1	0.1	102.7	102.6	
20	0.1	0.5	1.6	3.1	5.0	7.0	8.8	10.2	11.0	10.9	10.1	8.7	6.8	4.9	3.1	1.6	0.5	0.1	0.1	93.8	93.6	
30	0.1	0.4	1.4	2.7	4.4	6.1	7.7	8.9	9.5	9.4	8.7	7.5	6.0	4.3	2.7	1.4	0.5	0.1	0.1	81.6	81.4	
40	0.0	0.4	1.1	2.3	3.7	5.1	6.3	7.3	7.7	7.7	7.1	6.2	4.9	3.5	2.2	1.1	0.4	0.0	0.0	67.2	66.9	
50	0.0	0.3	0.9	1.8	2.8	3.9	4.9	5.6	5.9	5.8	5.4	4.7	3.7	2.7	1.7	0.8	0.3	0.0	0.0	51.2	50.8	
60	0.0	0.2	0.6	1.2	1.9	2.6	3.3	3.7	3.9	3.9	3.6	3.1	2.5	1.8	1.1	0.6	0.2	0.0	0.0	34.4	33.5	
70	0.0	0.1	0.3	0.6	1.0	1.4	1.7	2.0	2.1	2.1	1.9	1.7	1.3	0.9	0.6	0.3	0.1	0.0	0.0	18.1	14.6	
80	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.1	0.0	
90	0.7	6.0	18.2	36.4	58.5	81.9	103.8	120.9	130.4	130.8	121.9	105.3	83.6	60.0	37.6	19.0	6.4	0.8	1122			
Flux(T)	0.0	4.5	17.0	35.2	57.3	80.7	102.5	119.6	129.2	129.5	120.6	104.1	82.4	58.8	36.4	17.7	5.0	0.0		1101		
Flux(E)	-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																						

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	17.7	19.3	18.1	19.6	20.0	15.7	17.3	16.1	17.7	18.0
3H	19.4	20.8	19.8	21.1	21.5	17.0	18.4	17.4	18.8	19.2
4H	19.9	21.3	20.4	21.7	22.1	17.3	18.7	17.8	19.1	19.5
6H	20.3	21.6	20.7	22.0	22.4	17.5	18.8	18.0	19.2	19.6
8H	20.4	21.6	20.9	22.0	22.5	17.6	18.8	18.0	19.2	19.6
12H	20.5	21.6	20.9	22.0	22.5	17.6	18.7	18.0	19.1	19.6
X=4H Y=2H	18.0	19.3	18.4	19.7	20.1	16.3	17.7	16.8	18.1	18.5
3H	19.8	20.9	20.2	21.4	21.8	17.7	18.9	18.2	19.3	19.7
4H	20.5	21.5	20.9	21.9	22.4	18.2	19.2	18.6	19.7	20.1
6H	20.9	21.8	21.4	22.3	22.8	18.5	19.4	18.9	19.8	20.3
8H	21.0	21.9	21.5	22.3	22.8	18.5	19.4	19.0	19.8	20.3
12H	21.1	21.9	21.6	22.4	22.9	18.5	19.3	19.1	19.8	20.3
X=8H Y=4H	20.5	21.4	21.0	21.8	22.3	18.4	19.3	18.9	19.7	20.2
6H	21.0	21.7	21.6	22.2	22.8	18.8	19.5	19.3	20.0	20.5
8H	21.2	21.8	21.7	22.3	22.9	18.9	19.5	19.4	20.0	20.5
12H	21.3	21.9	21.8	22.4	23.0	18.9	19.4	19.4	20.0	20.6
X=12H Y=4H	20.5	21.3	21.0	21.8	22.3	18.5	19.2	19.0	19.7	20.2
6H	21.0	21.7	21.6	22.1	22.7	18.8	19.4	19.3	19.9	20.5
8H	21.2	21.8	21.7	22.3	22.9	18.9	19.5	19.4	20.0	20.6

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	0.68	0.75	0.80	0.87	0.92	0.96	1.00	1.03
	0.30		0.50	0.60	0.68	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	0.87	0.93	0.97
0.50	0.50	0.20	0.56	0.65	0.72	0.77	0.84	0.89	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		0.44	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	0.95
	0.30		0.48	0.58	0.64	0.70	0.77	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	0.78	0.82	0.85
Rating: 19W 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	0.21
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20
	0.20		0.70	0.60	0.53	0.48	0.39	0.34	0.29	0.23	0.19
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	0.22	0.19
0.30	0.50	0.20	0.91	0.74	0.63	0.55	0.43	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
Rating: 19W 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	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.21	
	0.20		0.06	0.08	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	0.20	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.13	0.14	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	0.16	0.18	0.18	0.19	0.20	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	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: 19W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												