

Report No.: 01

Test Time: 2016/9/8 13:54

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LINEARLYTE

Luminaire Description: PR3 3500K HO

Luminous Width (mm): 60

Voltage: 219.8 V

Power: 17.80 W

Luminous Length (mm): 600

Luminous Height (mm): 90

Current: 0.087 A

Power Factor: 0.935

Photometric Results

CIE Class: Direct

Measurement Flux: 1274 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H101.3

Vertical Diffuse Angle(50%): V103.9

Luminaire Efficacy Rating (LER): 72

Max. Intensity: 494.77 cd

Total Rated Lamp Lumens: 1274.0 lm

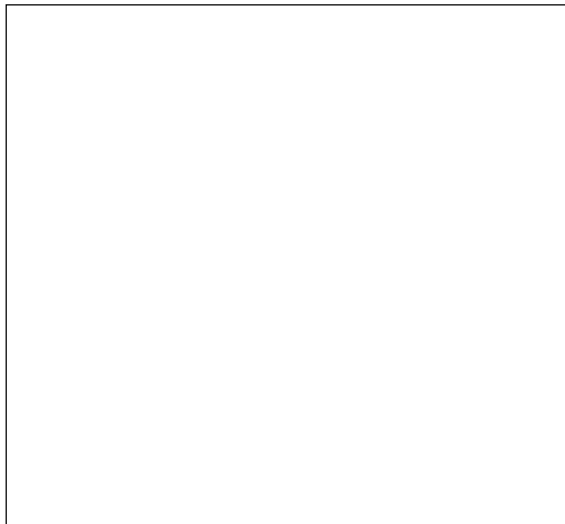
Efficiency: 100%

Upward Ratio: 1%

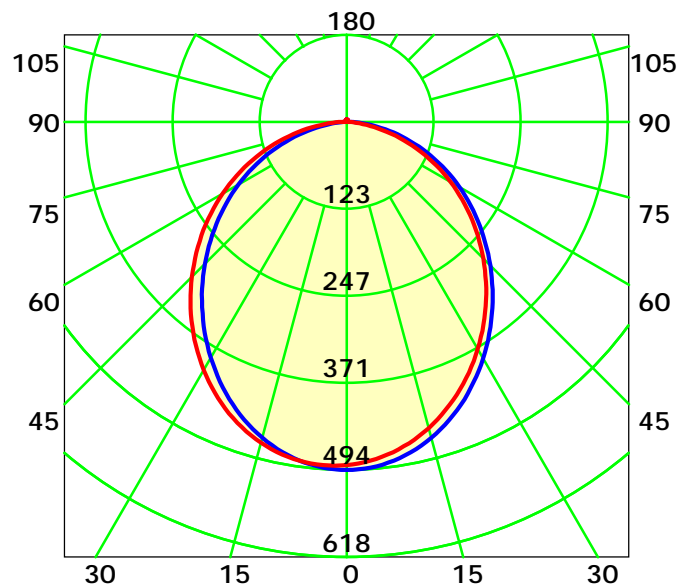
Central Intensity: 494.77 cd

Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 102.6° 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

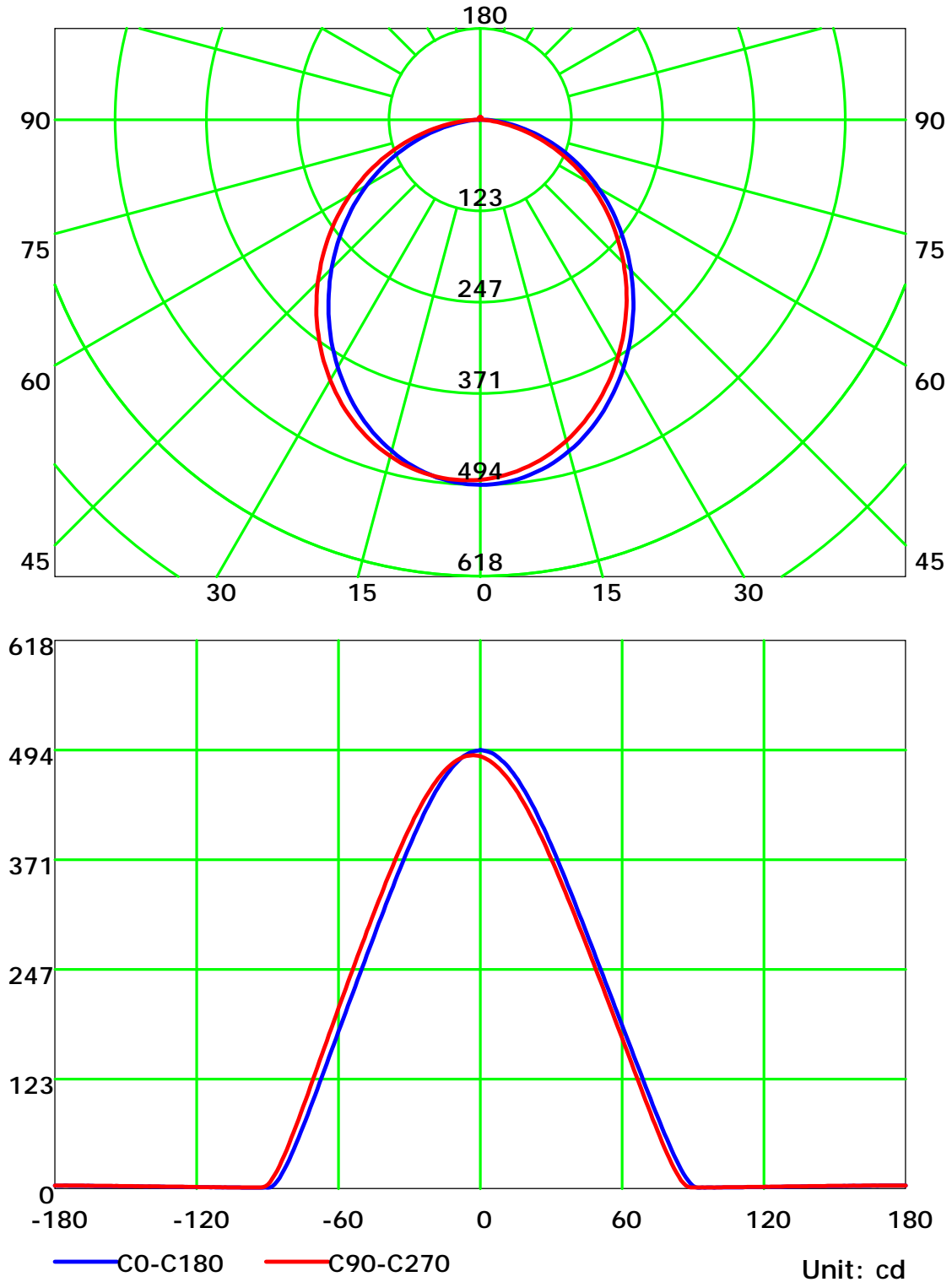
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

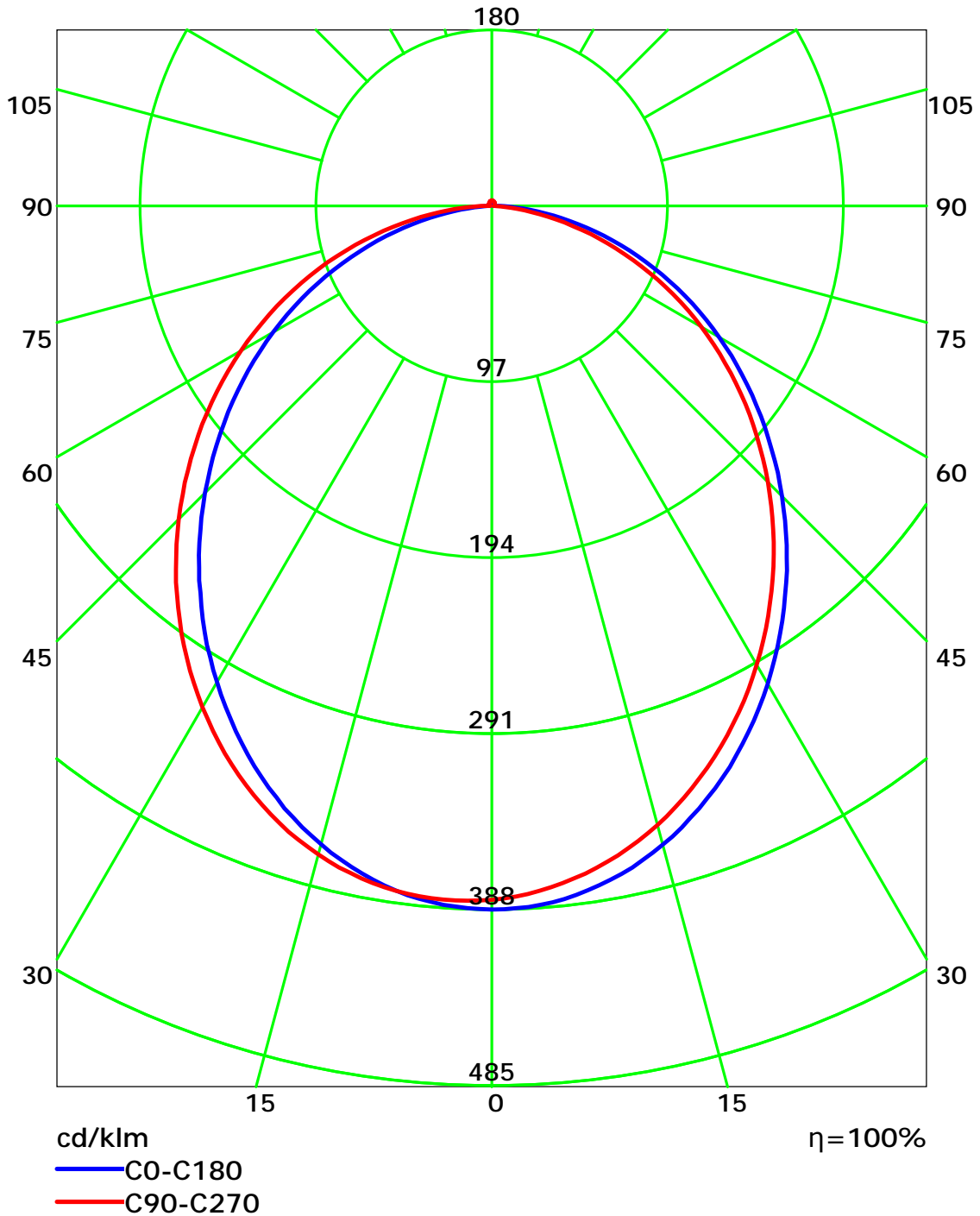
Luminous Intensity Distribution Curve



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:

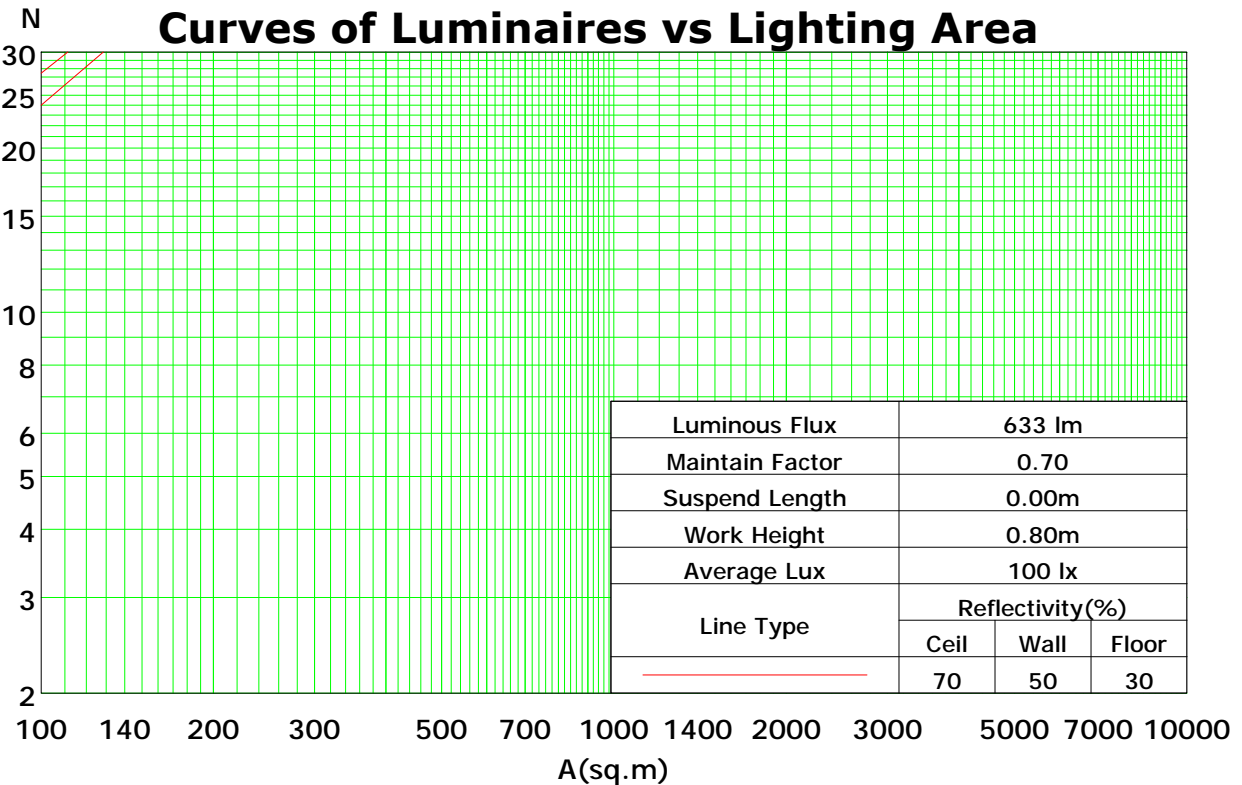
Coefficients Of Utilization - Zonal Cavity Method

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	96	106	102	98	94	97	94	91	93	91	88	89	87	85	83
2	99	91	84	79	96	89	83	78	85	80	76	82	77	74	79	75	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	62	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

Spacing Criteria (0-180): 1.17

Spacing Criteria (90-270): 1.19

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

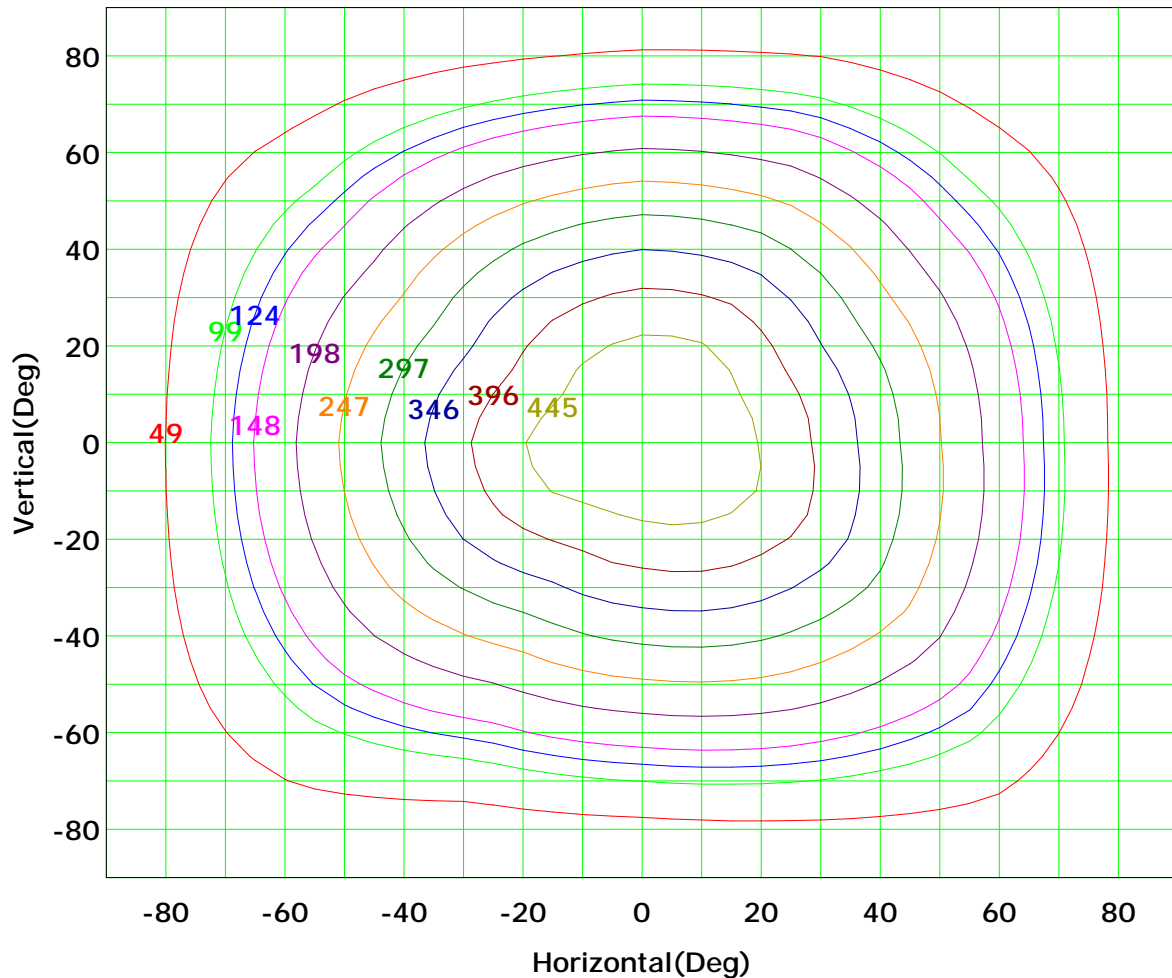
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 495 cd

(10%): 49 cd	(20%): 99 cd
(25%): 124 cd	(30%): 148 cd
(40%): 198 cd	(50%): 247 cd
(60%): 297 cd	(70%): 346 cd
(80%): 396 cd	(90%): 445 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

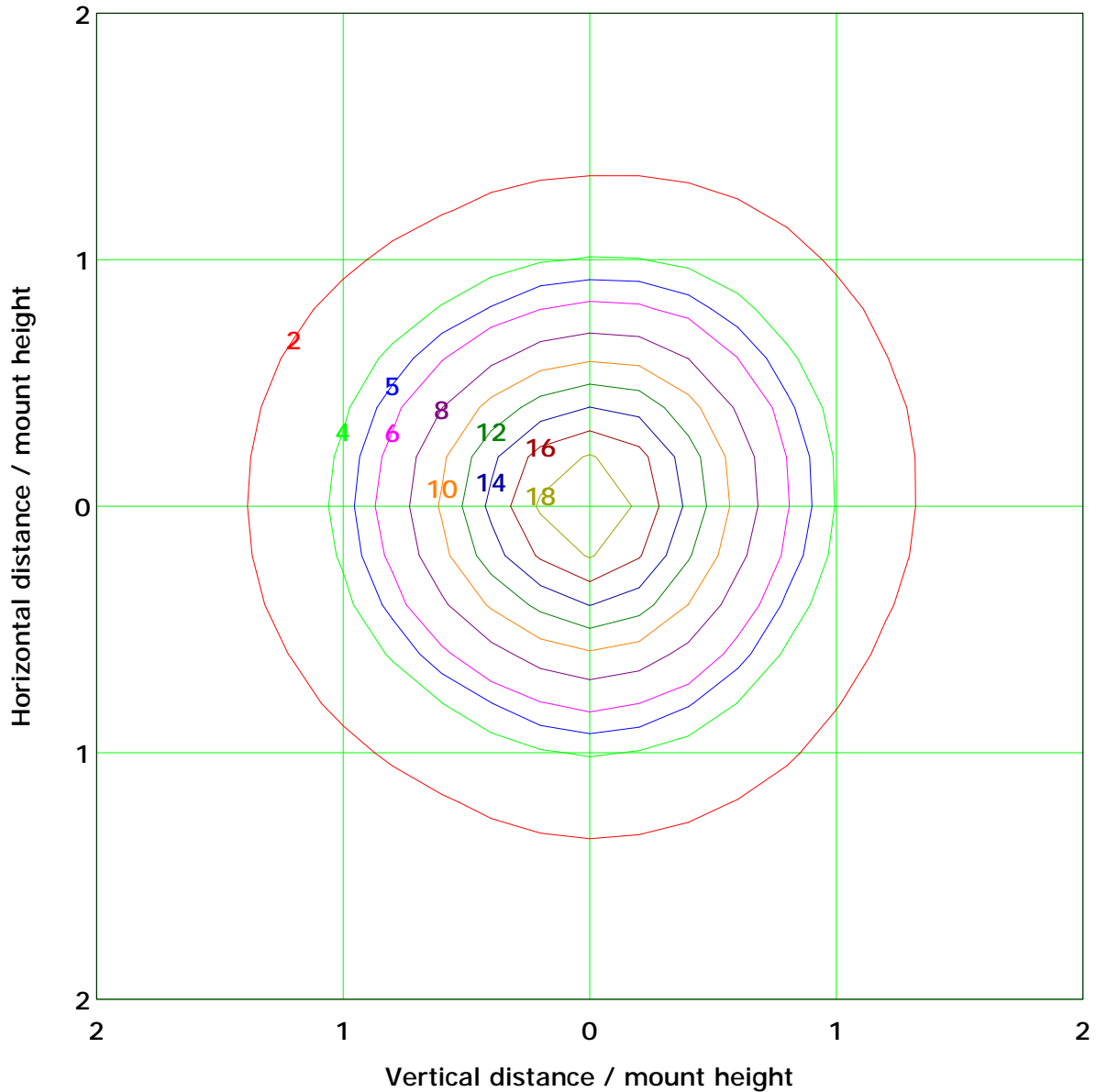
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 19.8 lx

(10%): 2.0 lx	(20%): 4.0 lx
(25%): 4.9 lx	(30%): 5.9 lx
(40%): 7.9 lx	(50%): 9.9 lx
(60%): 11.9 lx	(70%): 13.9 lx
(80%): 15.8 lx	(90%): 17.8 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

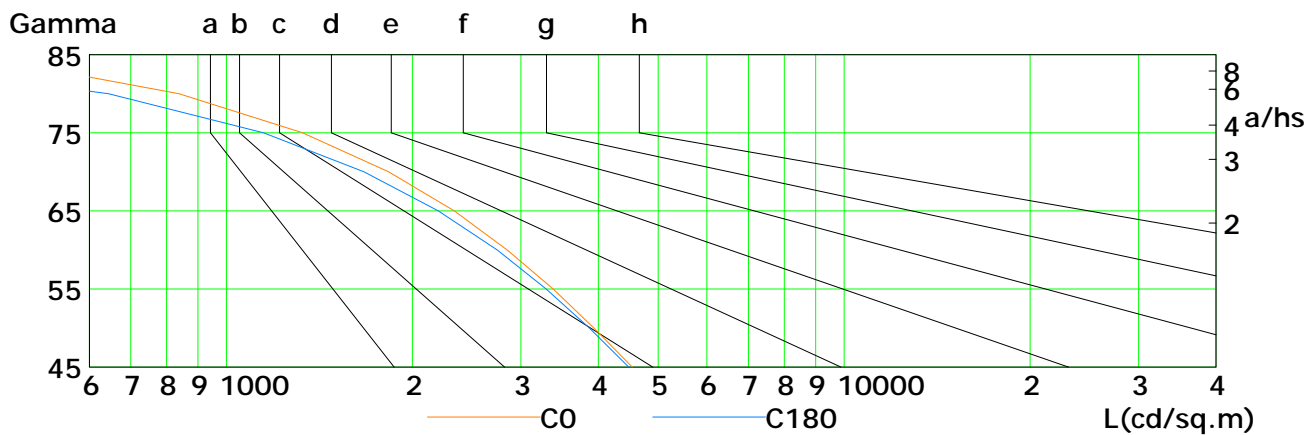
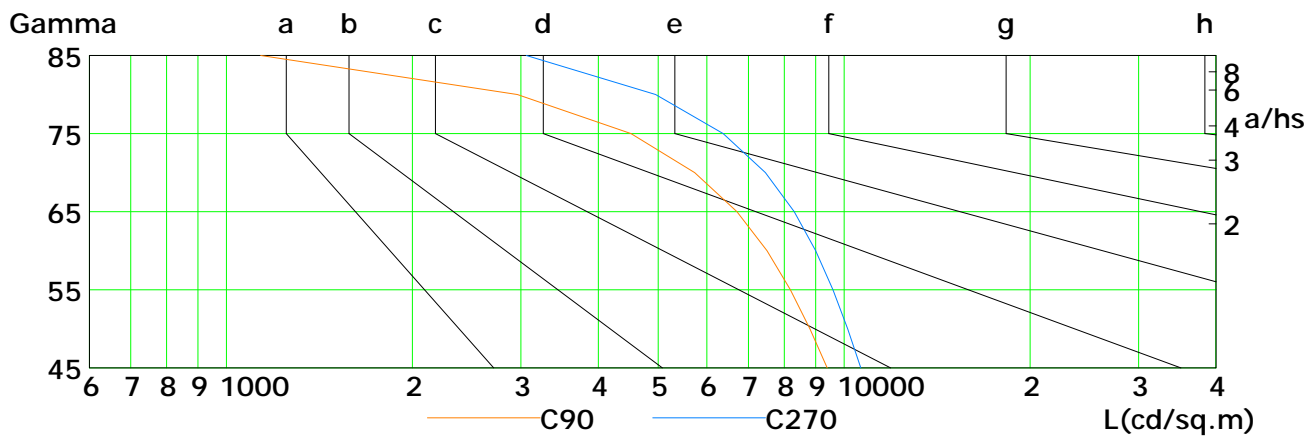
Humidity: 60%

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	4539	3937	3381	2850	2339	1831	1330	838	386
C90	9390	8802	8188	7507	6707	5728	4519	2958	1137
C180	4484	3868	3294	2744	2205	1670	1149	645	217
C270	10647	10135	9592	8996	8302	7458	6375	4955	3059

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

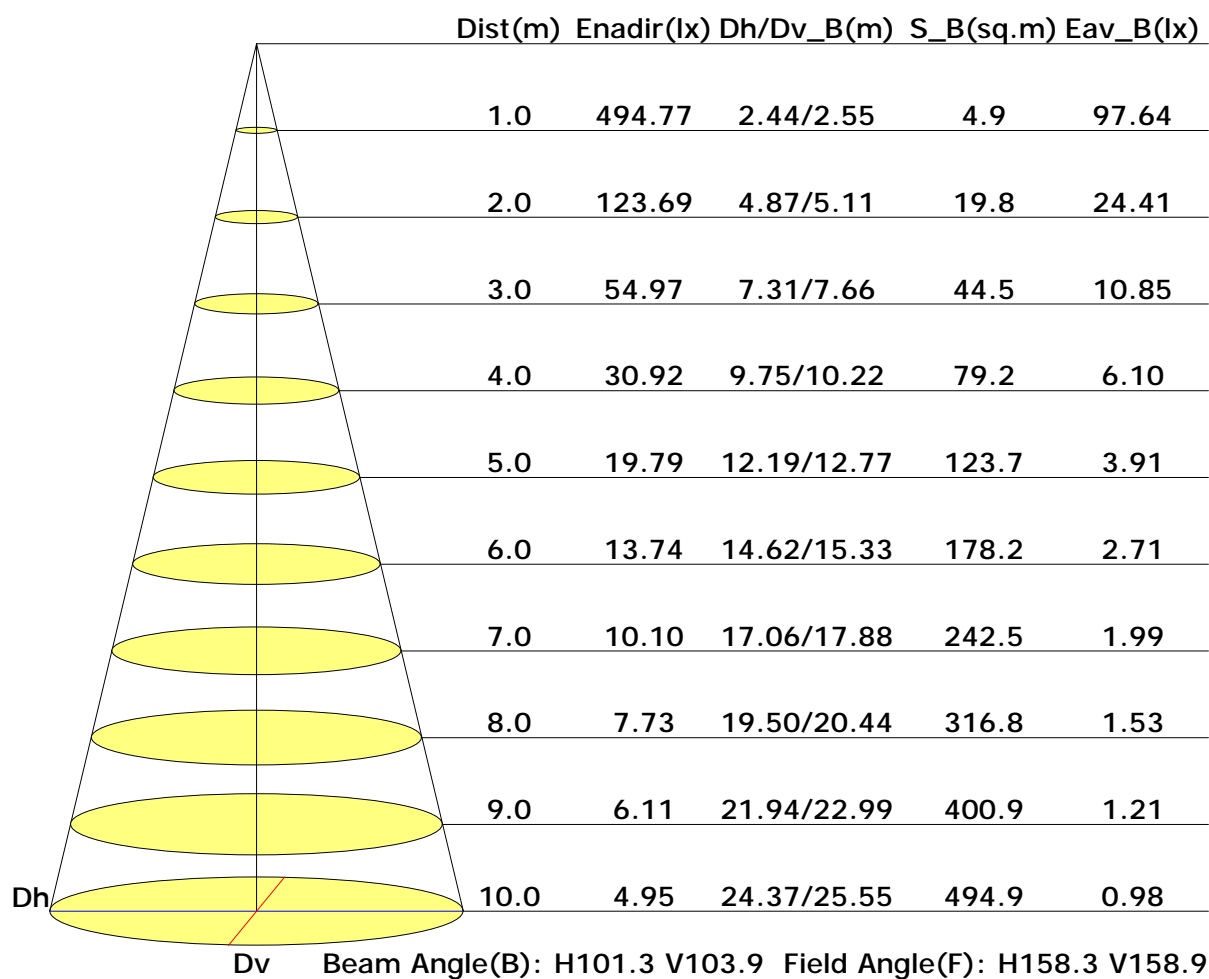
Test Device: GPM-1800B

Distance: 9.028 m

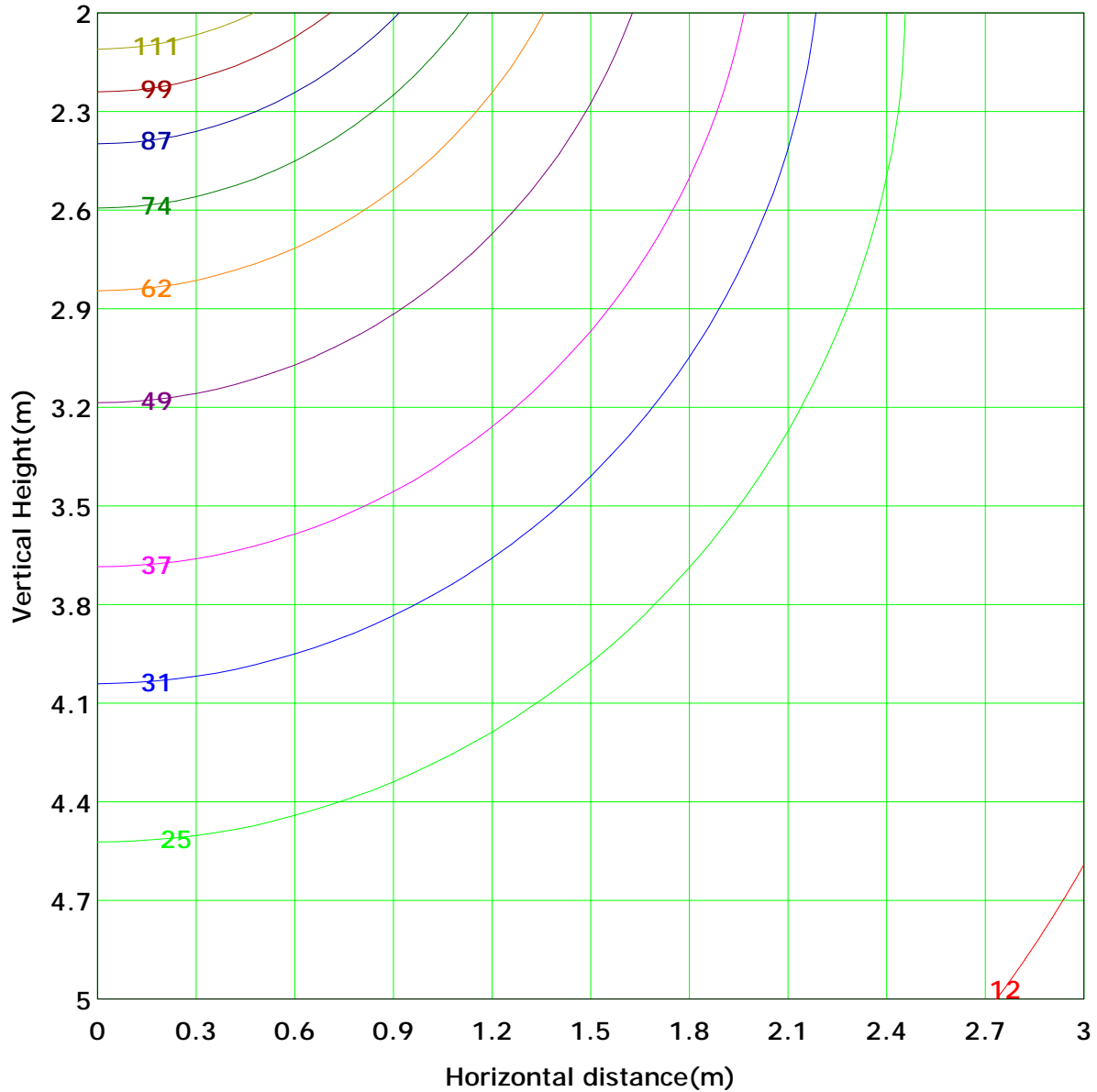
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 123.7 lx
(10%): 12.4 lx	(20%): 24.7 lx	
(25%): 30.9 lx	(30%): 37.1 lx	
(40%): 49.5 lx	(50%): 61.8 lx	
(60%): 74.2 lx	(70%): 86.6 lx	
(80%): 99.0 lx	(90%): 111.3 lx	

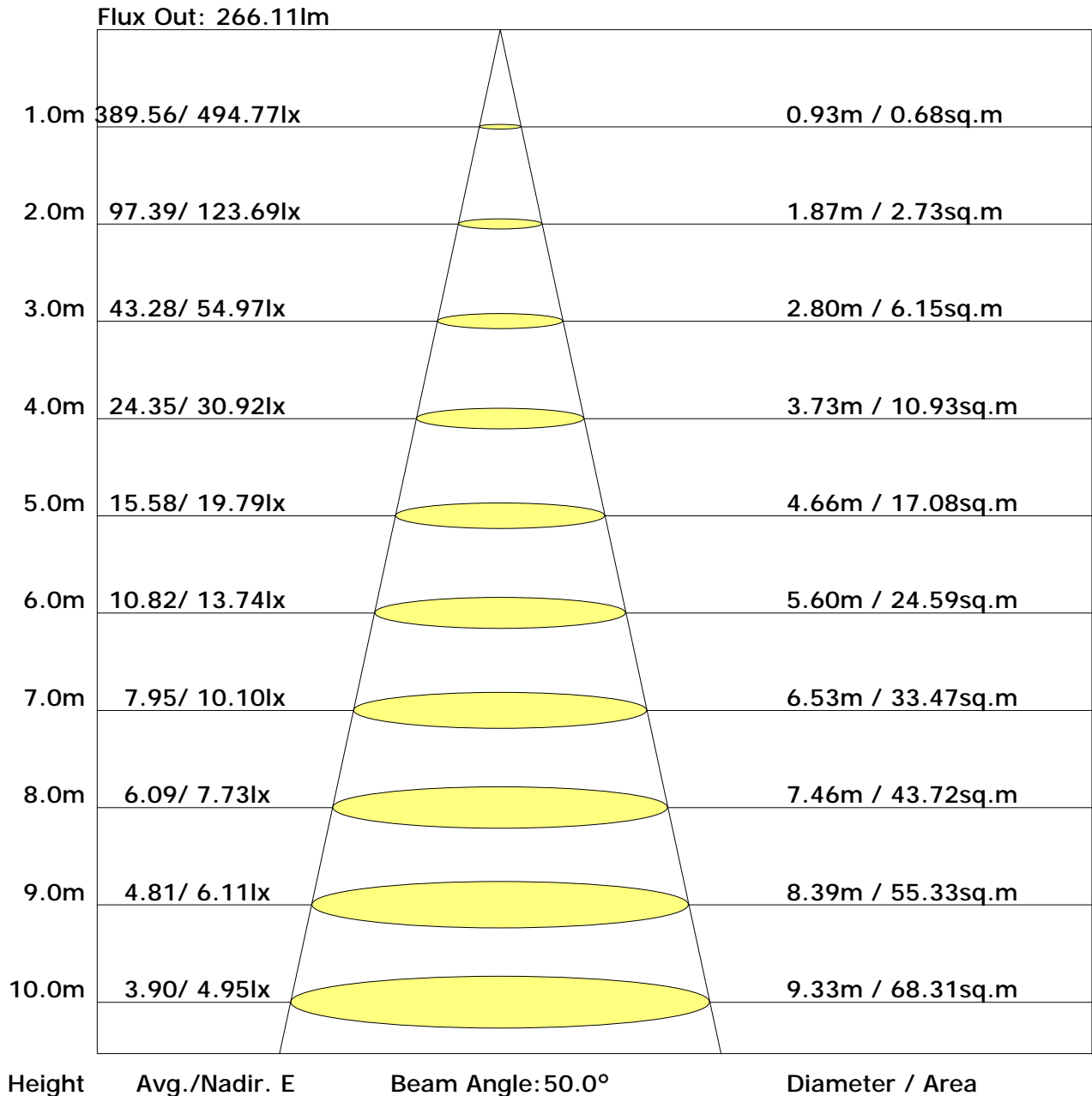
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

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

Unit: 1m

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	16.7	18.3	17.1	18.7	19.0	14.7	16.3	15.1	16.6	17.0
3H	18.4	19.9	18.8	20.2	20.6	15.9	17.3	16.3	17.7	18.1
4H	19.1	20.4	19.5	20.8	21.2	16.2	17.6	16.6	17.9	18.4
6H	19.5	20.7	19.9	21.1	21.5	16.4	17.6	16.8	18.0	18.4
8H	19.6	20.8	20.1	21.2	21.6	16.4	17.6	16.8	18.0	18.4
12H	19.7	20.8	20.1	21.2	21.7	16.4	17.5	16.8	17.9	18.4
X=4H Y=2H	17.0	18.3	17.4	18.7	19.1	15.4	16.7	15.8	17.1	17.5
3H	18.8	20.0	19.3	20.4	20.8	16.7	17.9	17.2	18.3	18.7
4H	19.5	20.5	20.0	21.0	21.4	17.1	18.1	17.6	18.6	19.0
6H	20.0	20.9	20.5	21.4	21.9	17.3	18.2	17.8	18.7	19.2
8H	20.2	21.0	20.7	21.5	22.0	17.3	18.2	17.8	18.6	19.1
12H	20.3	21.0	20.8	21.5	22.0	17.3	18.1	17.8	18.6	19.1
X=8H Y=4H	19.6	20.4	20.1	20.9	21.4	17.4	18.3	17.9	18.7	19.2
6H	20.1	20.8	20.6	21.3	21.8	17.7	18.4	18.2	18.9	19.4
8H	20.3	20.9	20.8	21.4	21.9	17.7	18.3	18.2	18.9	19.4
12H	20.4	21.0	20.9	21.5	22.1	17.7	18.3	18.2	18.8	19.4
X=12H Y=4H	19.6	20.3	20.1	20.8	21.3	17.5	18.2	18.0	18.7	19.2
6H	20.1	20.7	20.6	21.2	21.8	17.7	18.3	18.3	18.8	19.4
8H	20.3	20.8	20.8	21.4	21.9	17.8	18.3	18.3	18.8	19.4

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	0.58	0.68	0.75	0.81	0.88	0.93	0.96	1.01	1.03
	0.30		0.50	0.61	0.68	0.74	0.82	0.87	0.91	0.96	1.00
	0.20		0.45	0.55	0.62	0.68	0.77	0.83	0.87	0.93	0.97
0.50	0.50	0.20	0.56	0.66	0.73	0.78	0.84	0.89	0.92	0.96	0.99
	0.30		0.49	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96
	0.20		0.44	0.54	0.62	0.67	0.75	0.81	0.85	0.90	0.94
0.30	0.50	0.20	0.55	0.64	0.70	0.75	0.81	0.86	0.89	0.92	0.95
	0.30		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93
	0.20		0.44	0.54	0.61	0.66	0.73	0.79	0.82	0.87	0.90
0.00	0.00	0.00	0.42	0.51	0.58	0.63	0.70	0.75	0.78	0.83	0.86
Rating: 18W 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	0.97	0.80	0.68	0.59	0.47	0.39	0.34	0.26	0.21
	0.30		0.81	0.69	0.60	0.53	0.43	0.36	0.31	0.24	0.20
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.50	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.41	0.32	0.25	0.20
	0.30		0.79	0.67	0.58	0.51	0.41	0.35	0.30	0.23	0.19
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18
0.30	0.50	0.20	0.91	0.74	0.63	0.54	0.43	0.36	0.30	0.23	0.19
	0.30		0.77	0.65	0.56	0.49	0.40	0.33	0.29	0.22	0.18
	0.20		0.68	0.58	0.51	0.45	0.37	0.31	0.27	0.21	0.18
0.00	0.00	0.00	0.57	0.48	0.41	0.36	0.29	0.24	0.21	0.16	0.13
Rating: 18W 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	0.19	0.19	0.20	0.21	0.22	0.22	0.22	0.23
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.20	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	0.22	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	0.19	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: 18W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											