

Report No.: 01

Test Time: 2016/9/7 19:48

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LINEARLYTE

Luminaire Description: PR3 3500K SO

Luminous Width (mm):

Voltage: 219.9 V

Power: 19.01 W

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.092 A

Power Factor: 0.940

Photometric Results

CIE Class: Direct

Measurement Flux: 1389.7 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H99.9

Vertical Diffuse Angle(50%): V103.2

Luminaire Efficacy Rating (LER): 73

Max. Intensity: 546.62 cd

Total Rated Lamp Lumens: 1389.7 lm

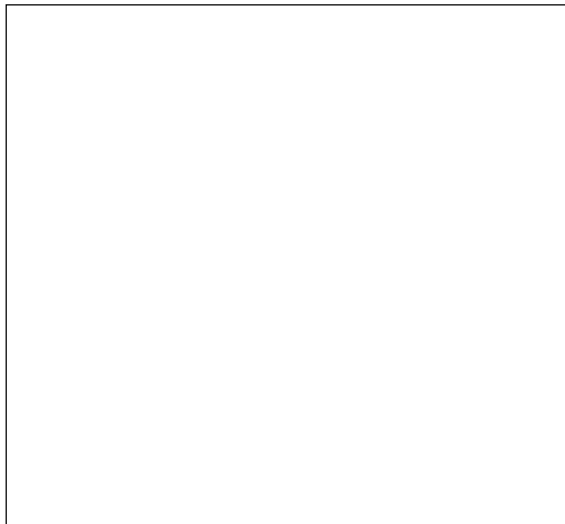
Efficiency: 100%

Upward Ratio: 1%

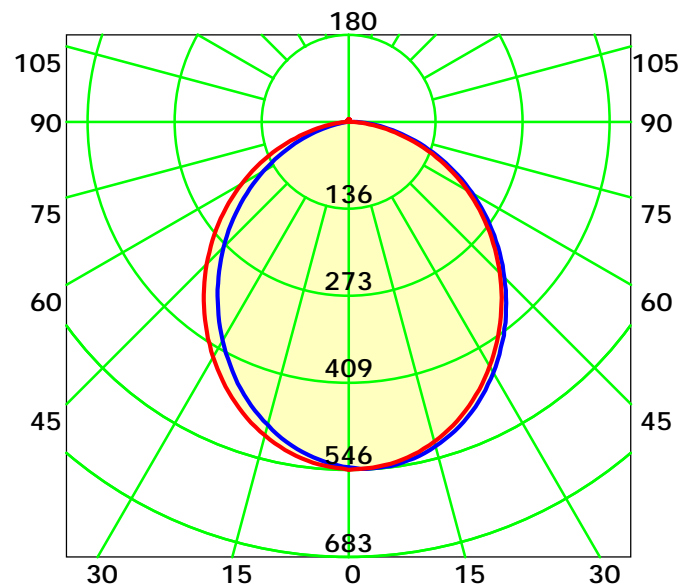
Central Intensity: 542.59 cd

Pos of Max. Intensity: H90 V0

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

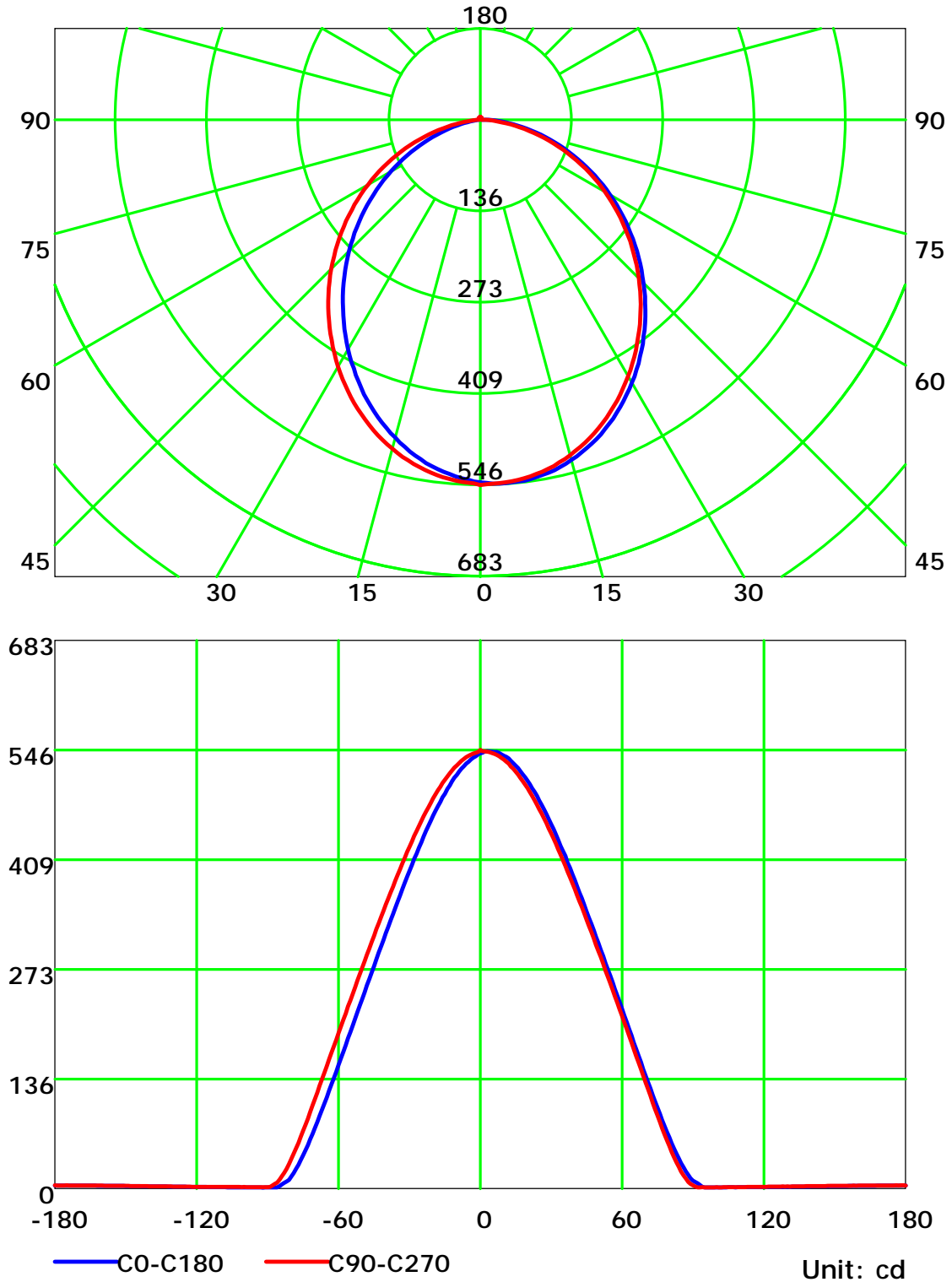
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

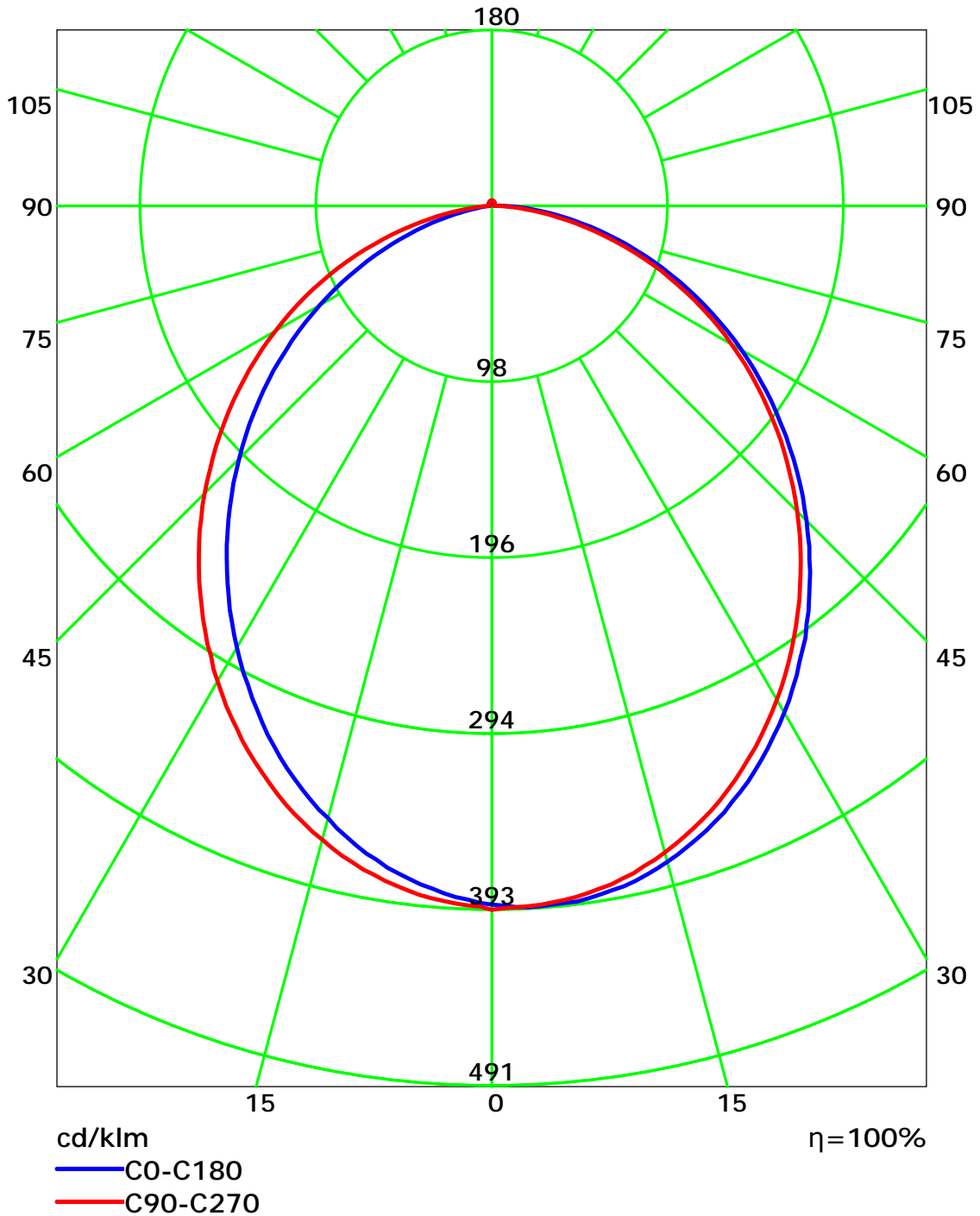
Luminous Intensity Distribution Curve



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:

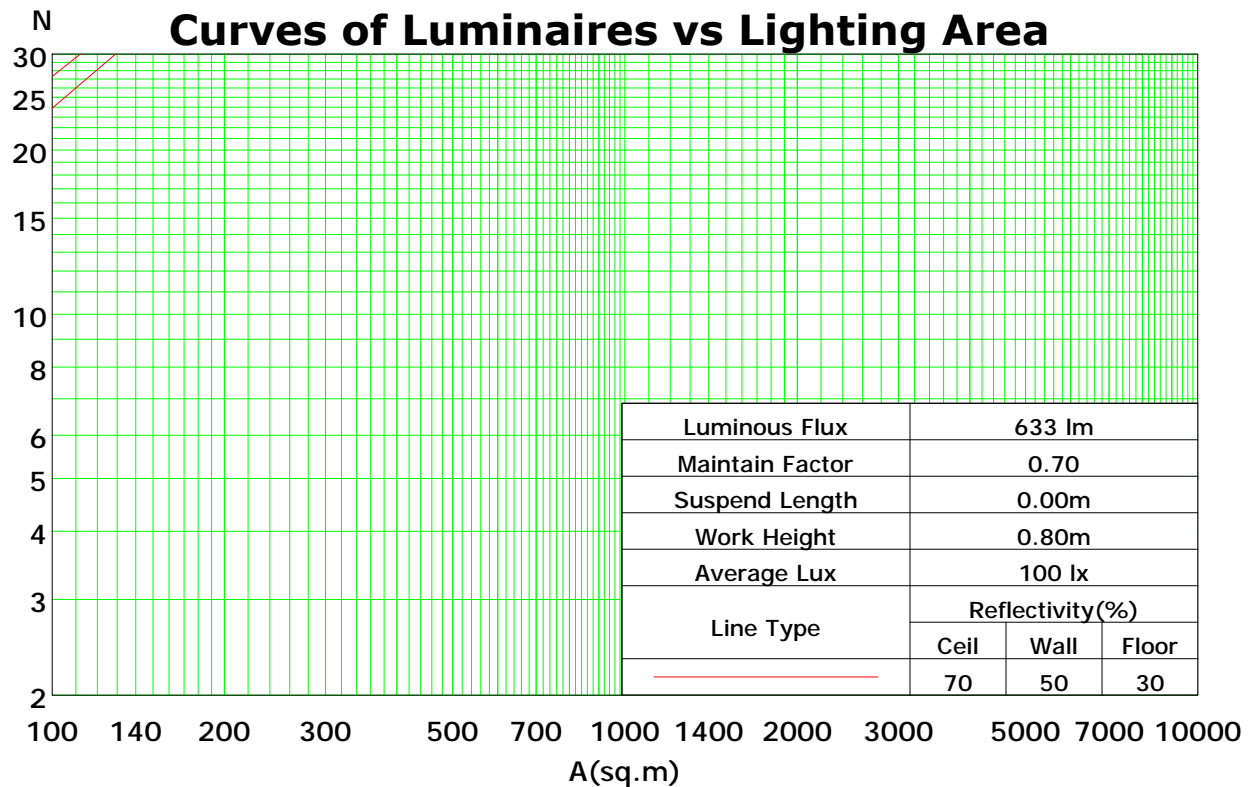
Coefficients Of Utilization - Zonal Cavity Method

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	105	105	105	101	101	101	99
1	109	104	100	96	106	102	98	95	97	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	72	70
3	91	81	73	66	88	79	72	66	76	69	64	73	67	63	70	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	55	49	61	53	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	37	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	31	27	26

Spacing Criteria (0-180): 1.17

Spacing Criteria (90-270): 1.19

Spacing Criteria (Diagonal): 1.30



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

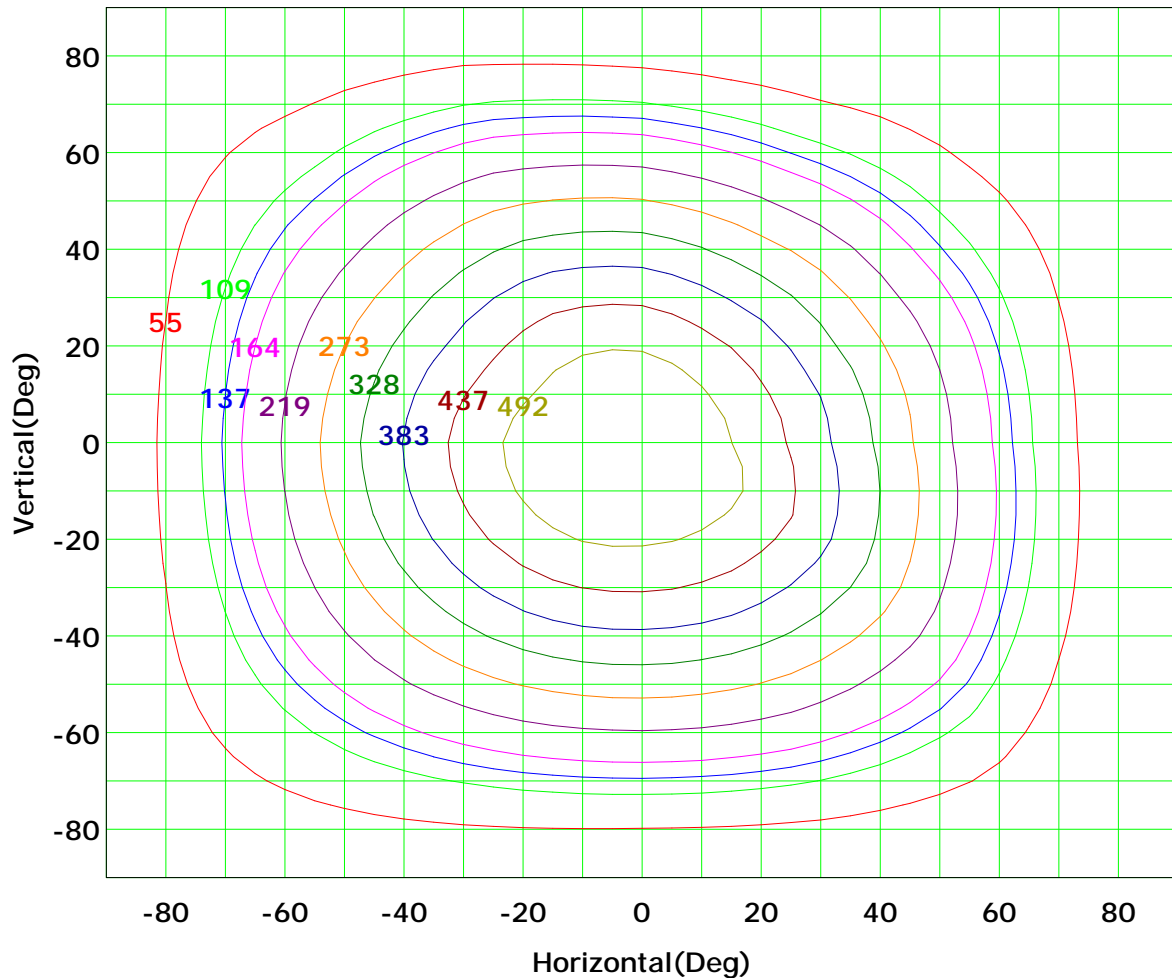
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



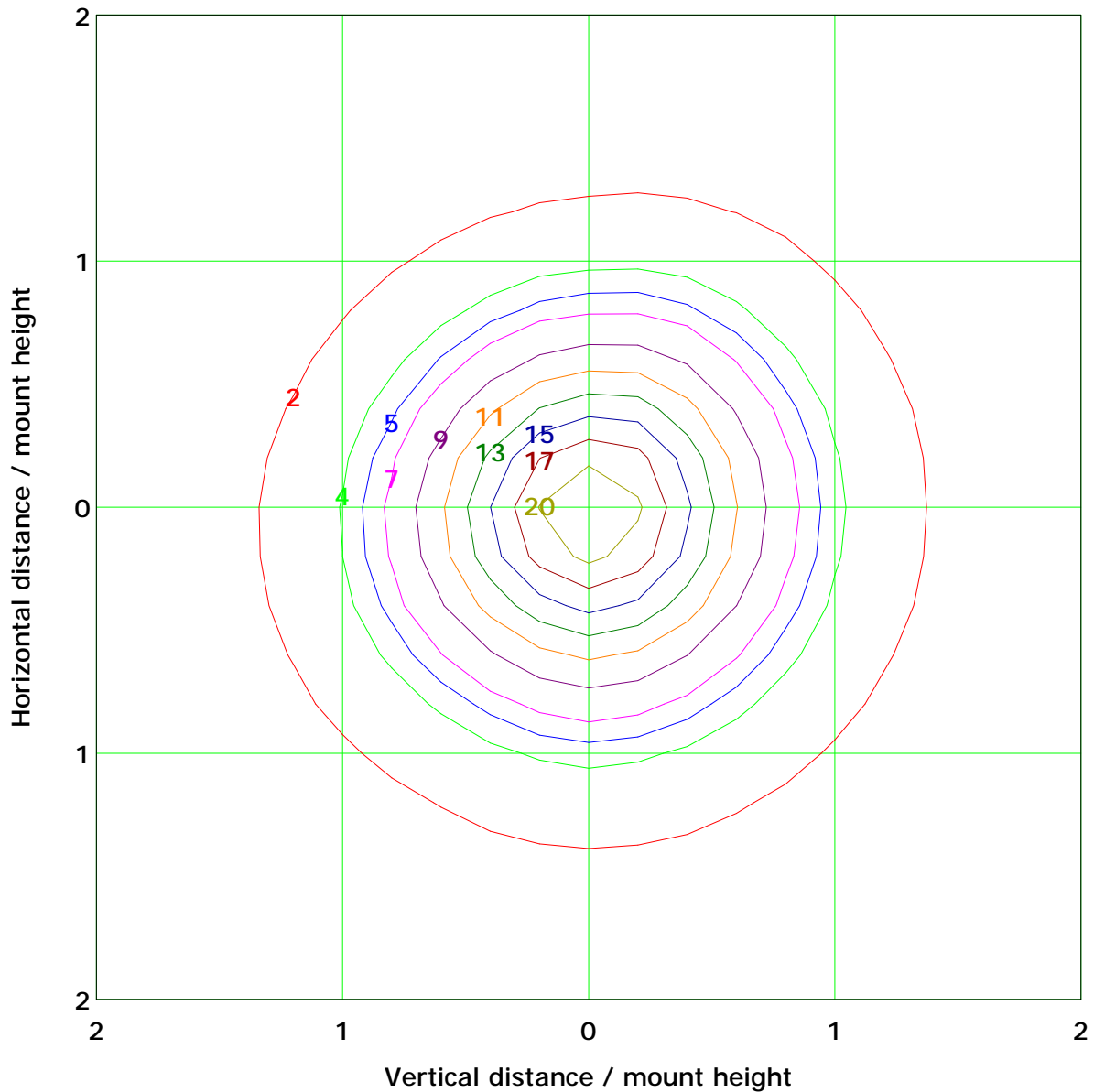
I_{max} (100%): 547 cd

(10%): 55 cd	(20%): 109 cd
(25%): 137 cd	(30%): 164 cd
(40%): 219 cd	(50%): 273 cd
(60%): 328 cd	(70%): 383 cd
(80%): 437 cd	(90%): 492 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%): 21.9 lx	
(10%):	2.2 lx	(20%):	4.4 lx
(25%):	5.5 lx	(30%):	6.6 lx
(40%):	8.7 lx	(50%):	10.9 lx
(60%):	13.1 lx	(70%):	15.3 lx
(80%):	17.5 lx	(90%):	19.7 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

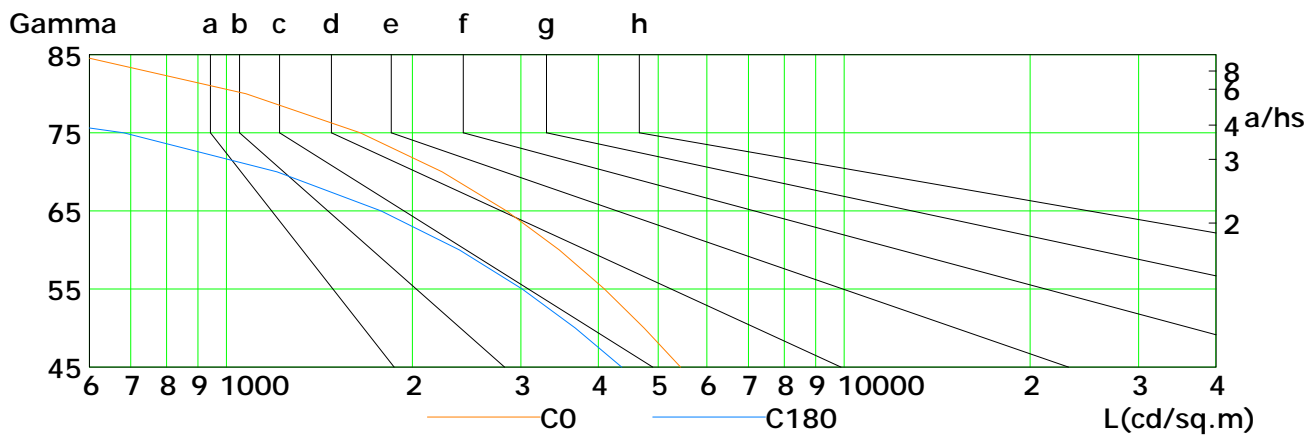
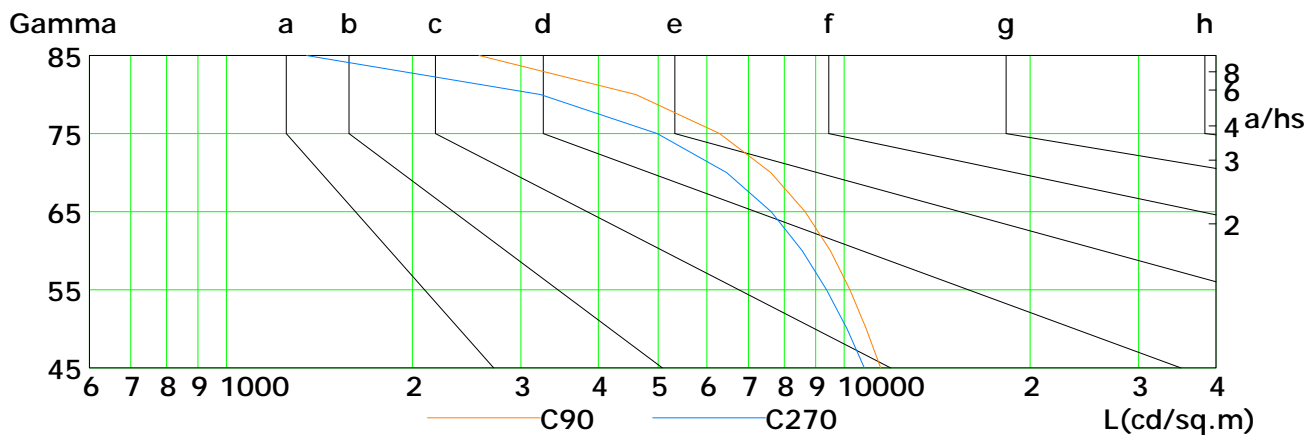
Humidity: 60%

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	5435	4748	4095	3458	2842	2235	1647	1076	566
C90	11468	10864	10222	9499	8654	7609	6292	4604	2563
C180	4367	3673	3011	2385	1780	1208	682	257	61
C270	10783	10113	9370	8562	7622	6455	4983	3226	1348

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

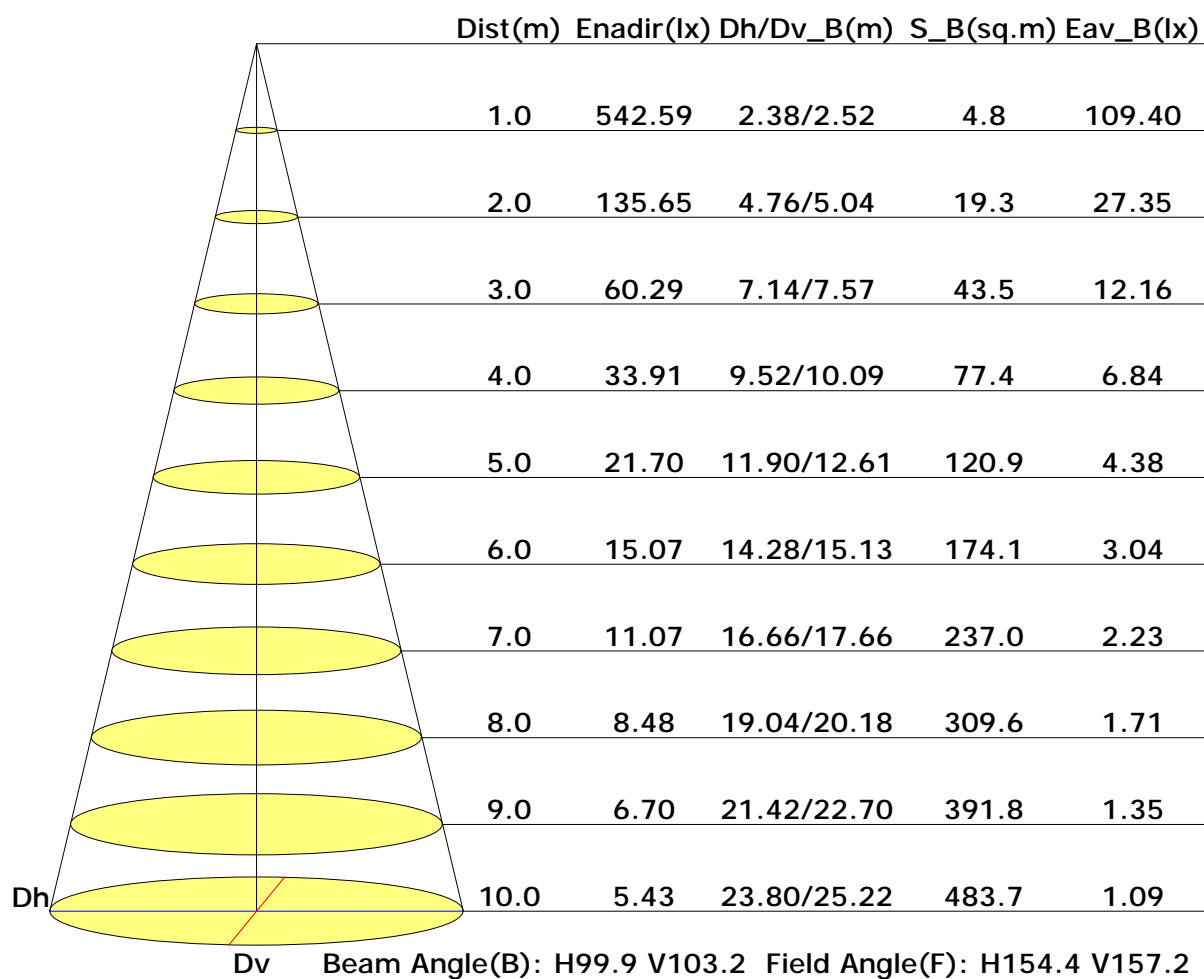
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

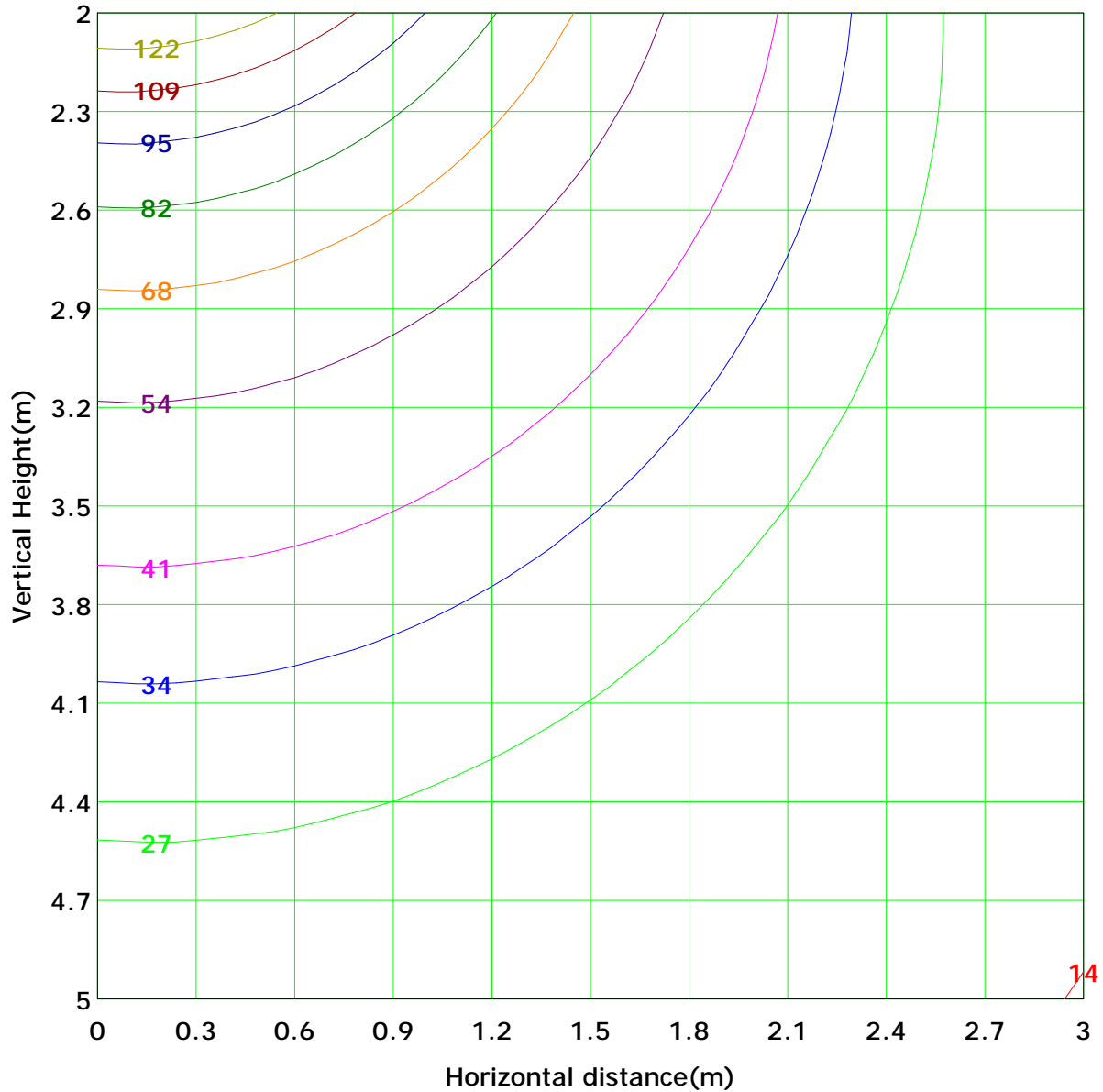
Illuminance at a Distance



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: 136.0 lx
(10%): 13.6 lx	(20%): 27.2 lx	
(25%): 34.0 lx	(30%): 40.8 lx	
(40%): 54.4 lx	(50%): 68.0 lx	
(60%): 81.6 lx	(70%): 95.2 lx	
(80%): 108.8 lx	(90%): 122.4 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:

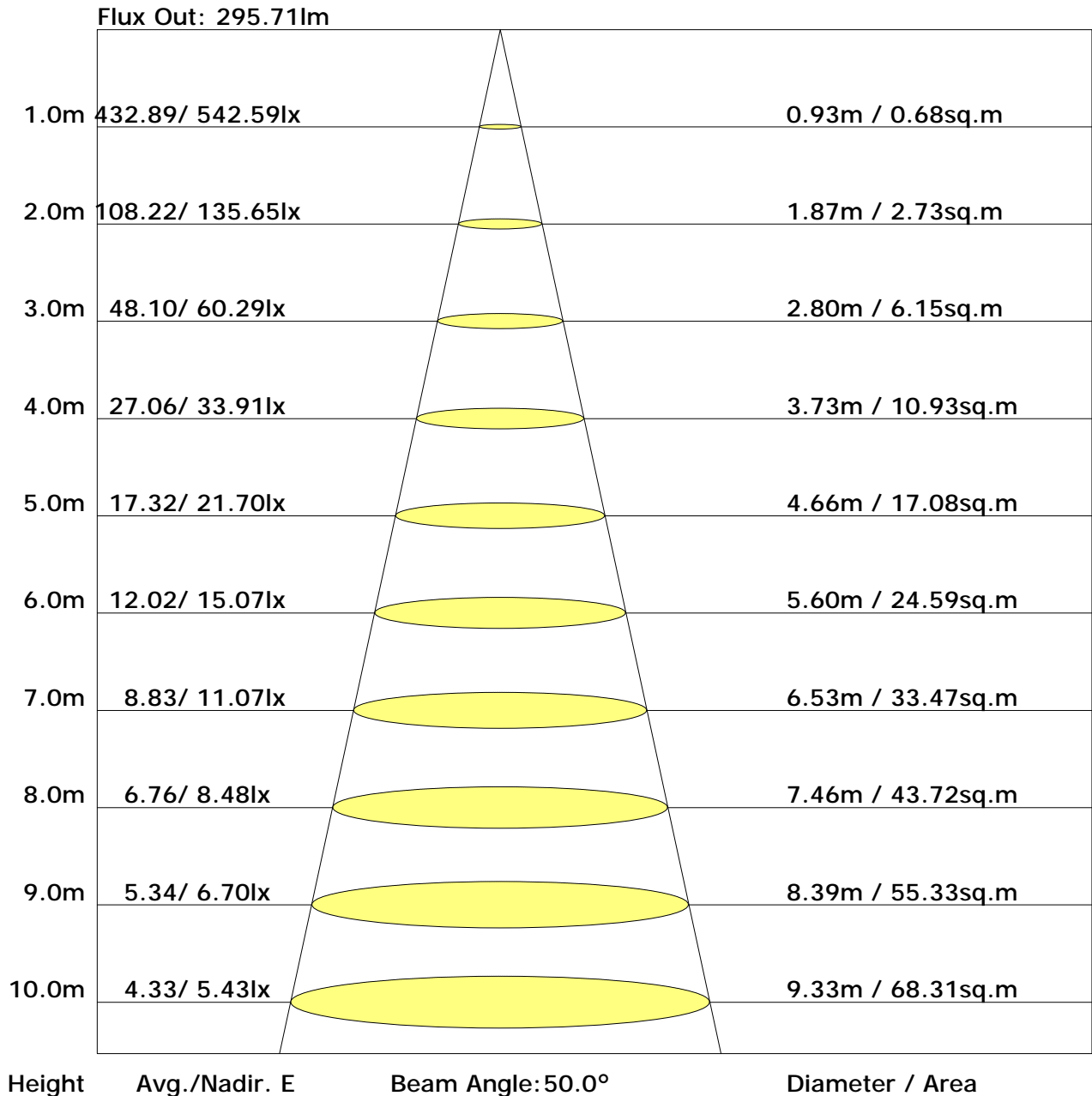


Area Flux Table

Unit: lm

		Orbit, m																			
-90	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.0	3.7	0.0
-80	0.0	0.0	0.1	0.2	0.4	0.7	1.1	1.6	2.1	2.3	2.3	2.1	1.7	1.1	0.7	0.3	0.2	0.0	16.9	11.0	
-70	0.0	0.0	0.2	0.5	1.2	2.0	2.8	3.7	4.4	4.7	4.6	4.1	3.3	2.3	1.3	0.7	0.3	0.0	36.2	34.1	
-60	0.0	0.1	0.4	1.1	2.2	3.4	4.7	5.9	6.9	7.2	6.9	6.1	4.9	3.4	2.1	1.1	0.4	0.1	56.8	55.7	
-50	0.0	0.1	0.7	1.7	3.1	4.9	6.6	8.1	9.3	9.6	9.2	8.0	6.3	4.5	2.8	1.4	0.5	0.1	76.9	76.3	
-40	0.0	0.2	1.0	2.3	4.1	6.2	8.3	10.2	11.5	11.9	11.3	9.7	7.7	5.4	3.4	1.8	0.6	0.1	95.6	95.1	
-30	0.0	0.3	1.2	2.8	4.9	7.3	9.8	12.0	13.5	13.9	13.1	11.2	8.8	6.3	4.0	2.0	0.7	0.1	111.7	111.4	
-20	0.0	0.3	1.4	3.2	5.5	8.2	11.0	13.4	15.0	15.4	14.4	12.3	9.7	6.9	4.4	2.2	0.8	0.1	124.2	123.9	
-10	0.0	0.4	1.5	3.4	5.9	8.8	11.7	14.3	15.9	16.3	15.2	13.1	10.3	7.3	4.6	2.3	0.8	0.1	132.0	131.7	
0	0.0	0.4	1.5	3.5	6.1	9.1	12.1	14.7	16.2	16.4	15.4	13.2	10.4	7.4	4.6	2.4	0.8	0.1	134.5	134.2	
10	0.0	0.4	1.6	3.5	6.1	9.1	12.0	14.3	15.5	15.7	14.7	12.6	9.9	7.1	4.4	2.3	0.8	0.1	130.3	130.1	
20	0.0	0.4	1.5	3.4	5.9	8.6	11.1	13.1	14.2	14.3	13.4	11.5	9.1	6.5	4.1	2.1	0.7	0.1	119.9	119.6	
30	0.0	0.3	1.3	3.1	5.3	7.6	9.7	11.4	12.3	12.4	11.6	10.0	7.9	5.7	3.6	1.8	0.7	0.1	104.7	104.4	
40	0.0	0.3	1.1	2.6	4.4	6.3	8.0	9.4	10.1	10.1	9.5	8.2	6.5	4.7	3.0	1.5	0.5	0.1	86.4	86.0	
50	0.0	0.2	0.8	2.0	3.4	4.9	6.2	7.2	7.7	7.7	7.2	6.3	5.0	3.6	2.3	1.2	0.4	0.1	66.2	65.6	
60	0.0	0.1	0.5	1.3	2.3	3.3	4.2	4.9	5.2	5.2	4.9	4.3	3.4	2.5	1.6	0.8	0.3	0.1	45.0	43.9	
70	0.0	0.1	0.3	0.7	1.1	1.7	2.2	2.6	2.8	2.8	2.6	2.3	1.9	1.4	0.9	0.5	0.2	0.0	24.0	20.2	
80	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.8	0.7	0.6	0.5	0.4	0.2	0.1	0.0	7.0	0.0	
90	0.2	3.6	15.2	35.5	62.3	92.6	122.4	147.5	163.7	167.2	157.4	136.4	107.8	76.9	48.1	24.8	8.9	1.4	1372		
Flux(E)	0.0	1.1	13.1	33.7	60.6	90.9	120.8	145.9	162.1	165.7	155.9	134.8	106.2	75.3	46.5	23.2	7.2	0.1		1343	
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)	

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	17.5	19.1	17.9	19.4	19.8	15.6	17.2	16.0	17.6	17.9
3H	19.2	20.6	19.6	21.0	21.4	16.9	18.3	17.3	18.7	19.1
4H	19.9	21.2	20.3	21.6	22.0	17.3	18.6	17.7	19.0	19.4
6H	20.3	21.6	20.8	21.9	22.4	17.5	18.7	17.9	19.1	19.6
8H	20.5	21.6	20.9	22.1	22.5	17.5	18.7	18.0	19.1	19.6
12H	20.6	21.7	21.0	22.1	22.6	17.6	18.7	18.0	19.1	19.5
X=4H Y=2H	17.8	19.1	18.2	19.5	19.9	16.2	17.5	16.6	17.9	18.3
3H	19.6	20.7	20.1	21.2	21.6	17.7	18.8	18.1	19.2	19.6
4H	20.3	21.3	20.8	21.8	22.2	18.2	19.2	18.6	19.6	20.1
6H	20.9	21.8	21.4	22.2	22.7	18.4	19.3	18.9	19.8	20.3
8H	21.1	21.9	21.5	22.3	22.8	18.5	19.3	19.0	19.8	20.3
12H	21.2	21.9	21.7	22.4	22.9	18.5	19.2	19.0	19.7	20.2
X=8H Y=4H	20.4	21.2	20.9	21.7	22.2	18.4	19.2	18.9	19.7	20.2
6H	21.0	21.7	21.5	22.2	22.7	18.7	19.4	19.2	19.9	20.4
8H	21.2	21.8	21.7	22.3	22.9	18.8	19.4	19.3	19.9	20.5
12H	21.4	21.9	21.9	22.4	23.0	18.9	19.4	19.4	19.9	20.5
X=12H Y=4H	20.4	21.1	20.9	21.6	22.1	18.4	19.1	18.9	19.6	20.1
6H	21.0	21.6	21.5	22.1	22.7	18.8	19.4	19.3	19.8	20.4
8H	21.2	21.8	21.7	22.3	22.9	18.9	19.4	19.4	19.9	20.5

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 = 1.25								
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	0.69	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	0.87	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	0.72	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	0.58	0.63	0.70	0.75	0.79	0.83	0.86
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	0.96	0.79	0.67	0.59	0.47	0.39	0.33	0.25	0.21
	0.30		0.80	0.68	0.59	0.52	0.42	0.35	0.31	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		0.79	0.66	0.57	0.50	0.41	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	0.29	0.24	0.20	0.16	0.13
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	0.17	0.19	0.19	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.20	0.20
	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	0.19	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	0.18
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: 19W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											