

Report No.: 01

Test Time: 2016/9/7 11:11

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linearlyte

Luminaire Description: PS3 3500K LO

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.068 A

Power Factor: 0.932

Luminous Width (mm):

Voltage: 220.1 V

Power: 13.87 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1241.8 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H104.1

Vertical Diffuse Angle(50%): V106.9

Luminaire Efficacy Rating (LER): 90

Max. Intensity: 465.71 cd

Total Rated Lamp Lumens: 1241.8 lm

Efficiency: 100%

Upward Ratio: 1%

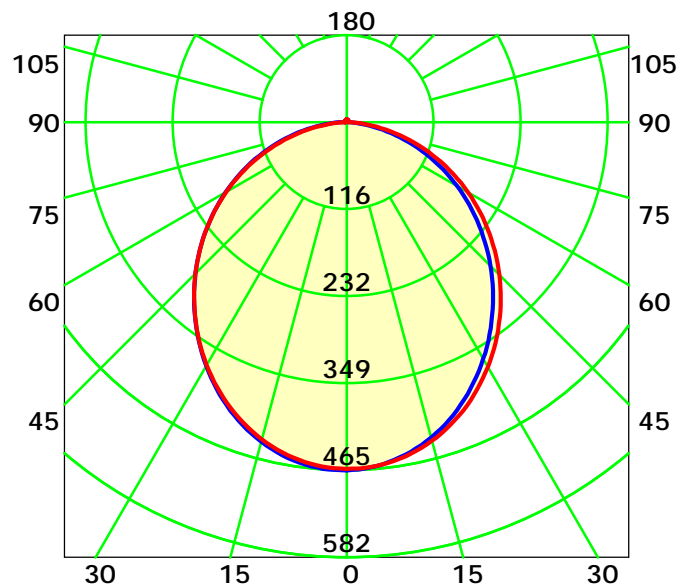
Central Intensity: 465.7 cd

Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 105.5° 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

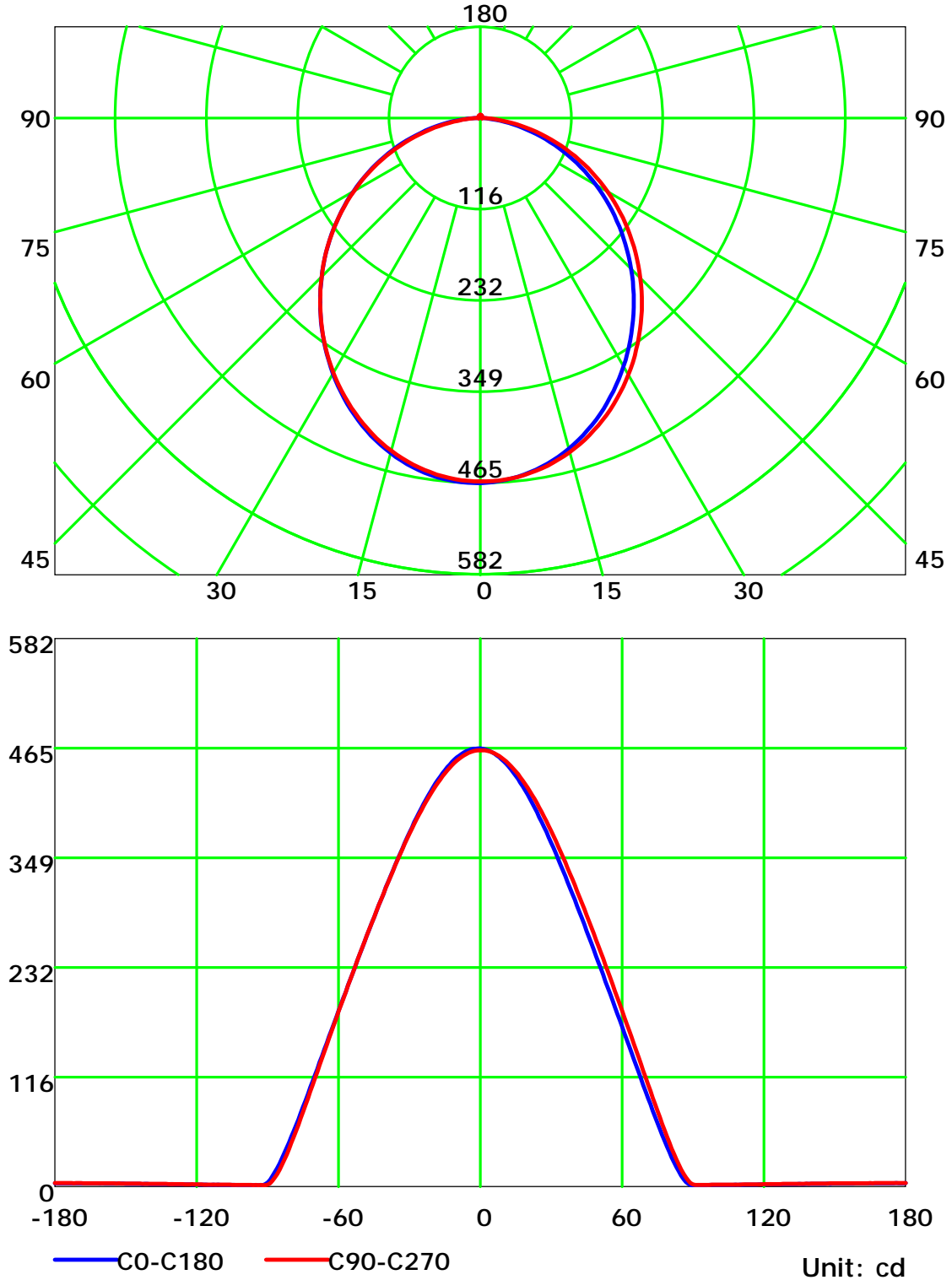
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

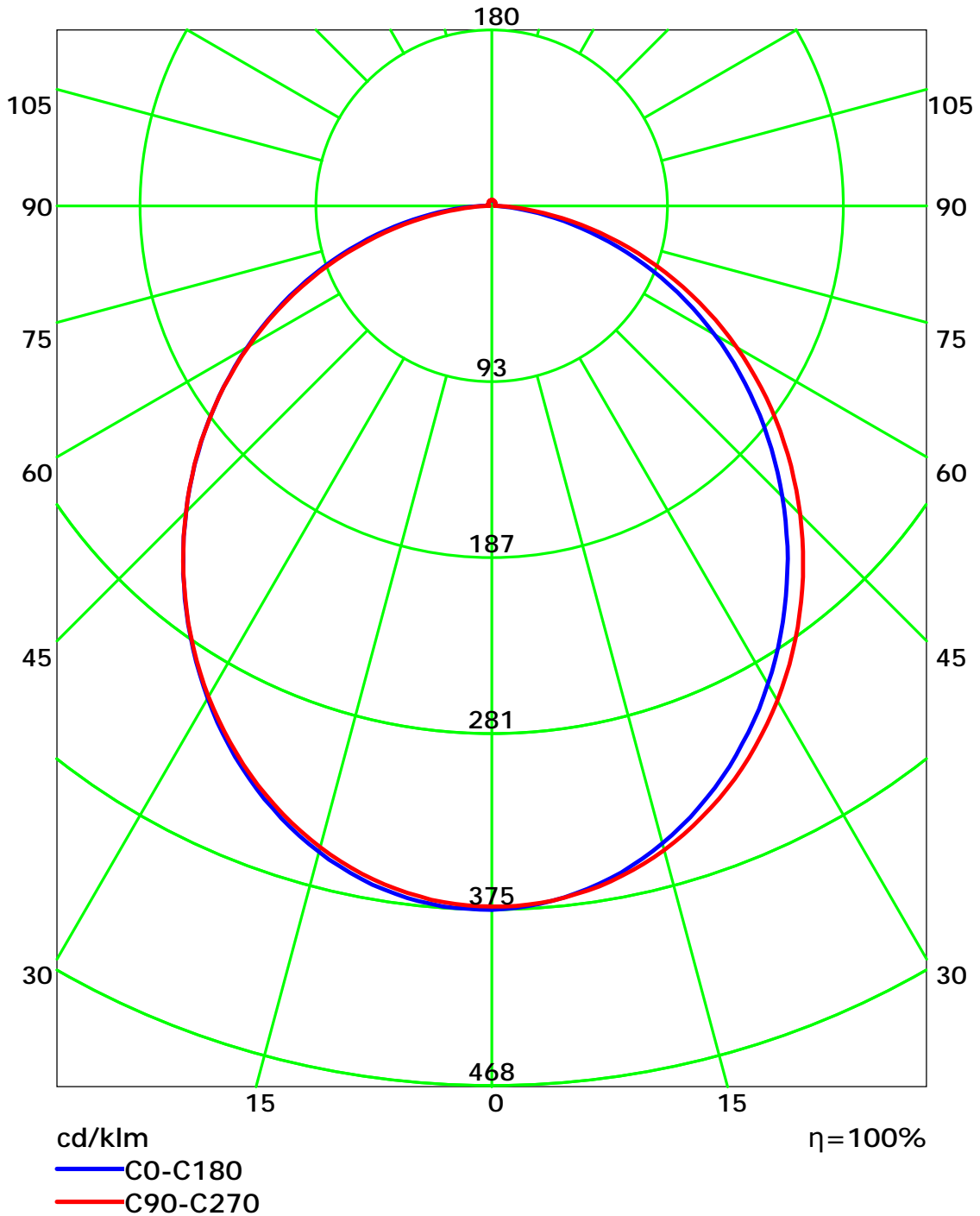
Luminous Intensity Distribution Curve



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:

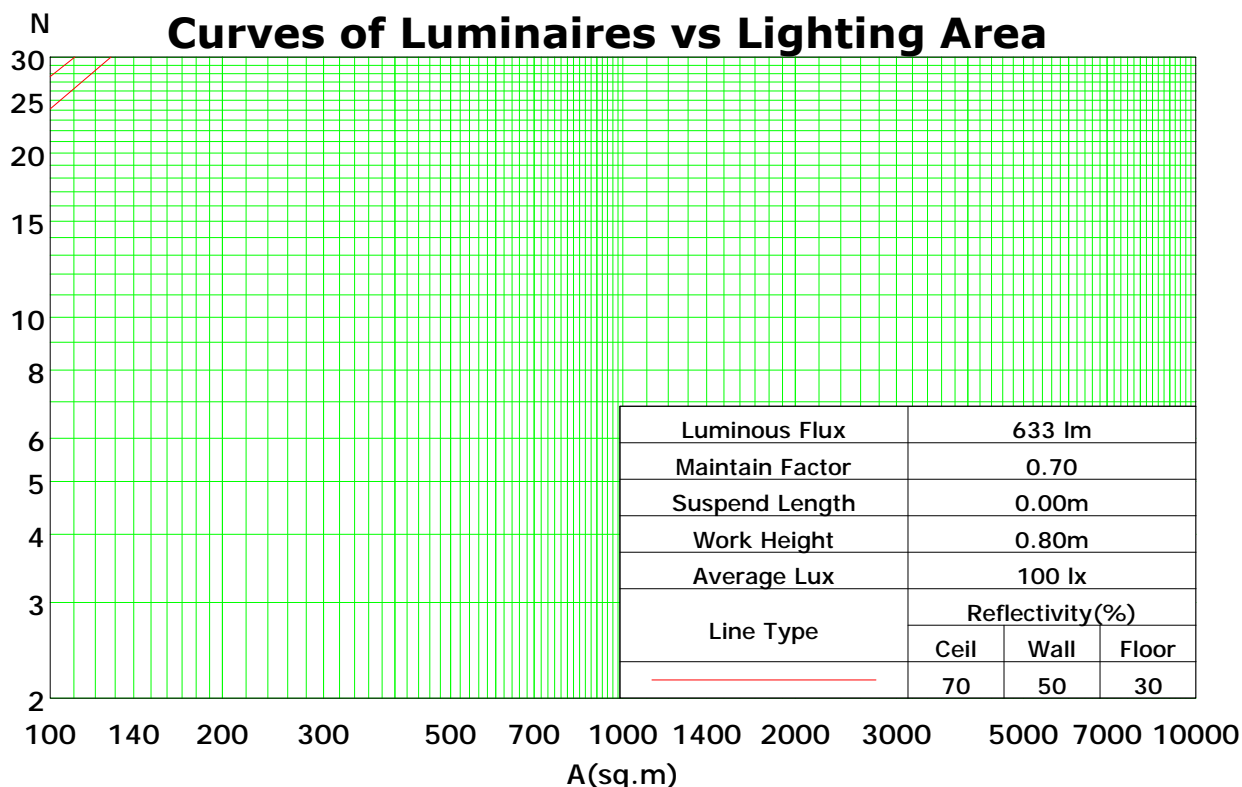
Coefficients Of Utilization - Zonal Cavity Method

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	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	87	78	70	64	75	68	63	72	66	62	69	64	61	58
4	83	71	62	55	80	69	61	55	67	59	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	41	54	47	41	52	46	40	50	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	46	38	33	45	38	33	44	37	32	42	36	32	30
9	57	43	35	30	55	43	35	30	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	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: 25°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

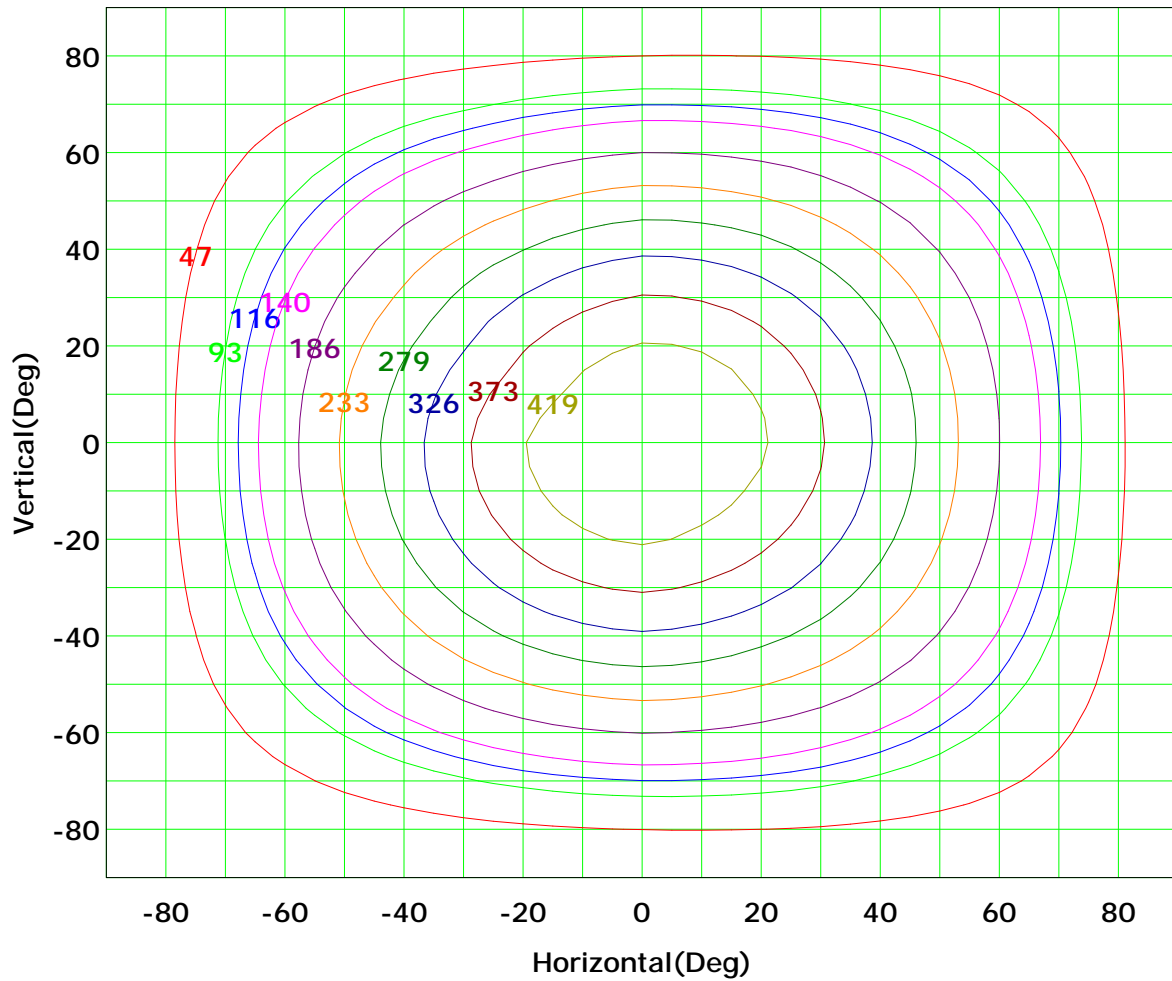
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 466 cd

(10%): 47 cd	(20%): 93 cd
(25%): 116 cd	(30%): 140 cd
(40%): 186 cd	(50%): 233 cd
(60%): 279 cd	(70%): 326 cd
(80%): 373 cd	(90%): 419 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

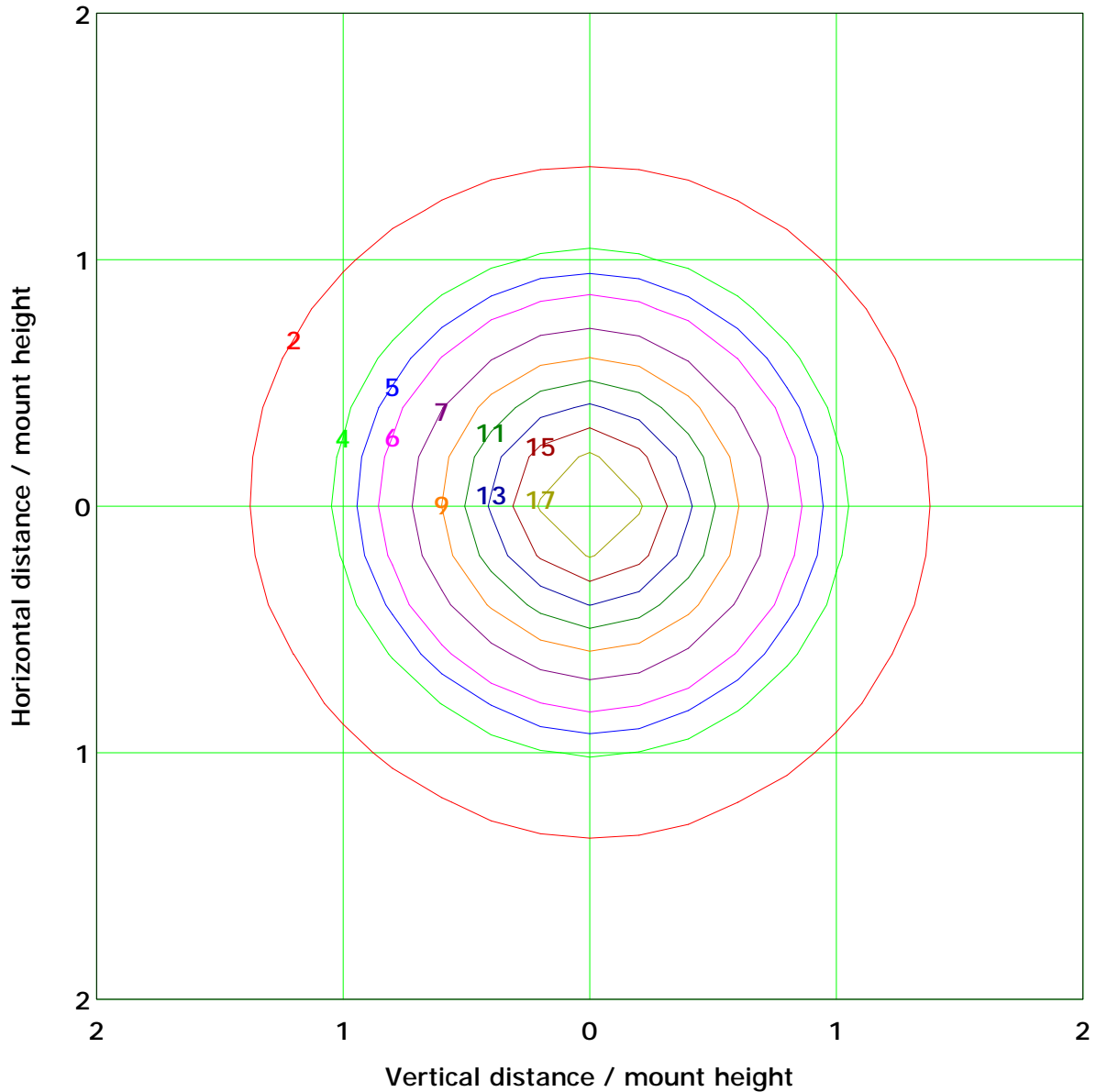
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 18.6 lx

(10%): 1.9 lx	(20%): 3.7 lx
(25%): 4.7 lx	(30%): 5.6 lx
(40%): 7.5 lx	(50%): 9.3 lx
(60%): 11.2 lx	(70%): 13.0 lx
(80%): 14.9 lx	(90%): 16.8 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

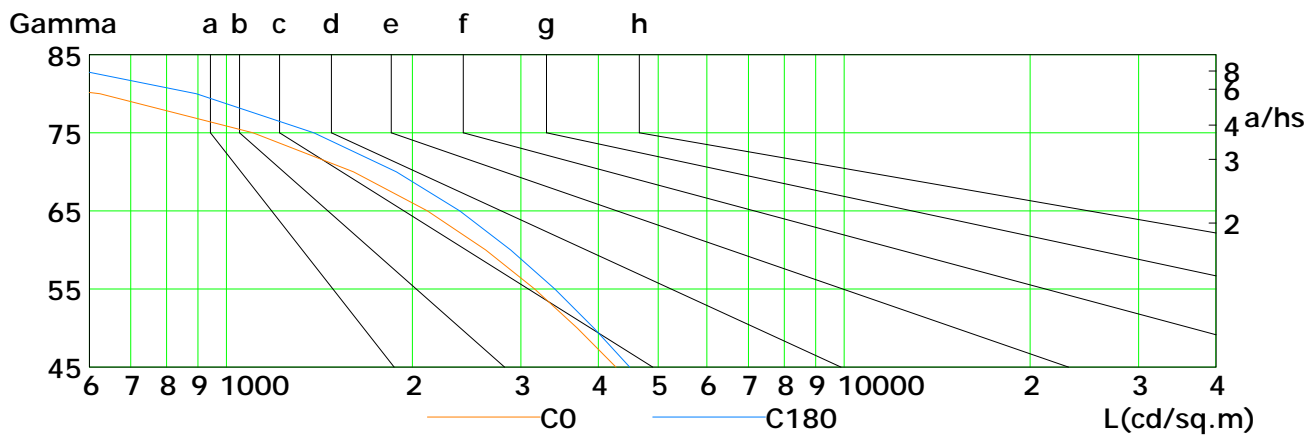
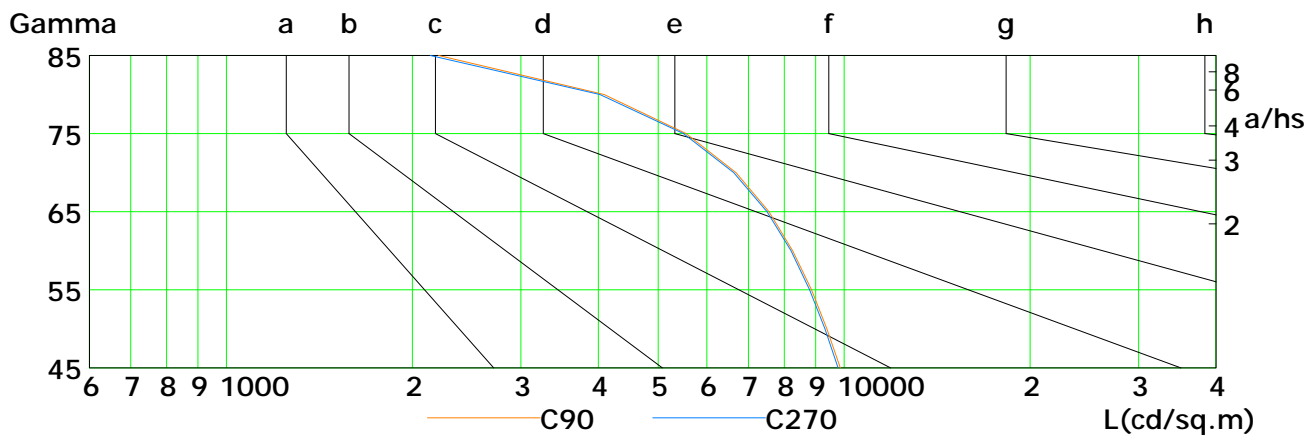
Humidity: 60%

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	4275	3697	3157	2629	2116	1607	1105	624	216
C90	9865	9380	8858	8257	7561	6685	5549	4088	2207
C180	4499	3935	3401	2886	2386	1885	1386	894	437
C270	9783	9319	8793	8208	7507	6632	5498	4024	2138

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

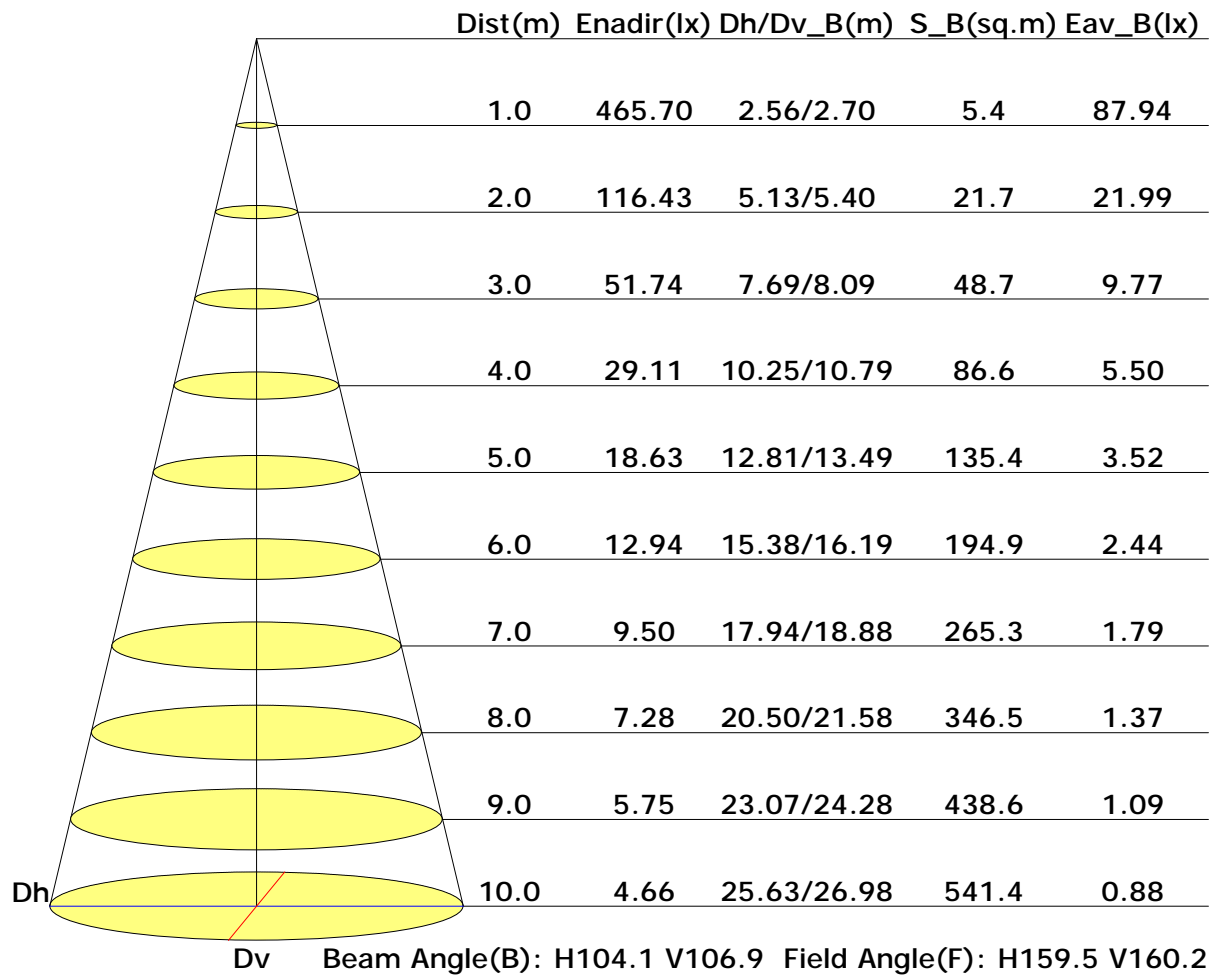
Test Device: GPM-1800B

Distance: 9.028 m

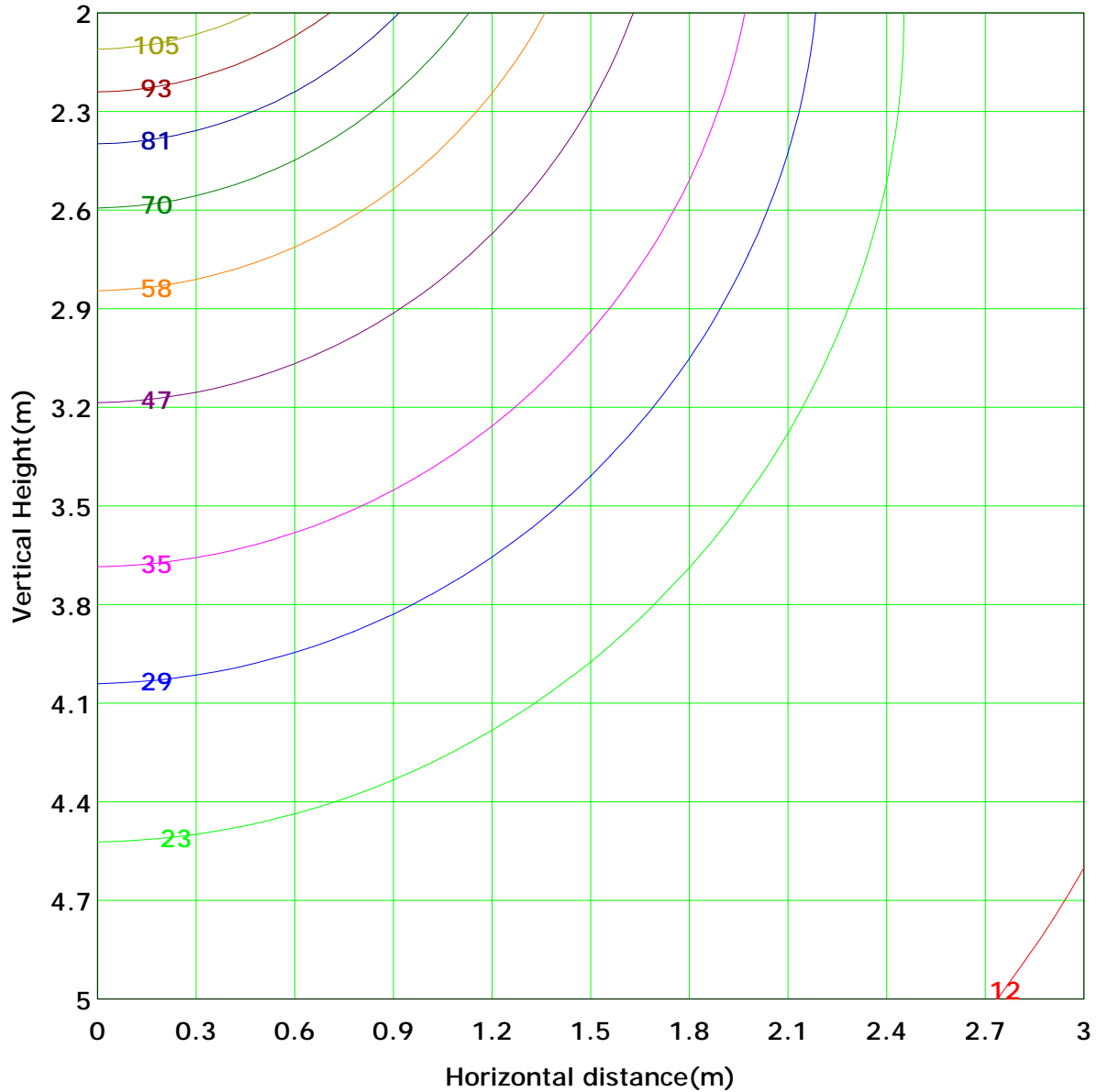
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 116.4 lx
(10%): 11.6 lx	(20%): 23.3 lx	
(25%): 29.1 lx	(30%): 34.9 lx	
(40%): 46.6 lx	(50%): 58.2 lx	
(60%): 69.9 lx	(70%): 81.5 lx	
(80%): 93.1 lx	(90%): 104.8 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:

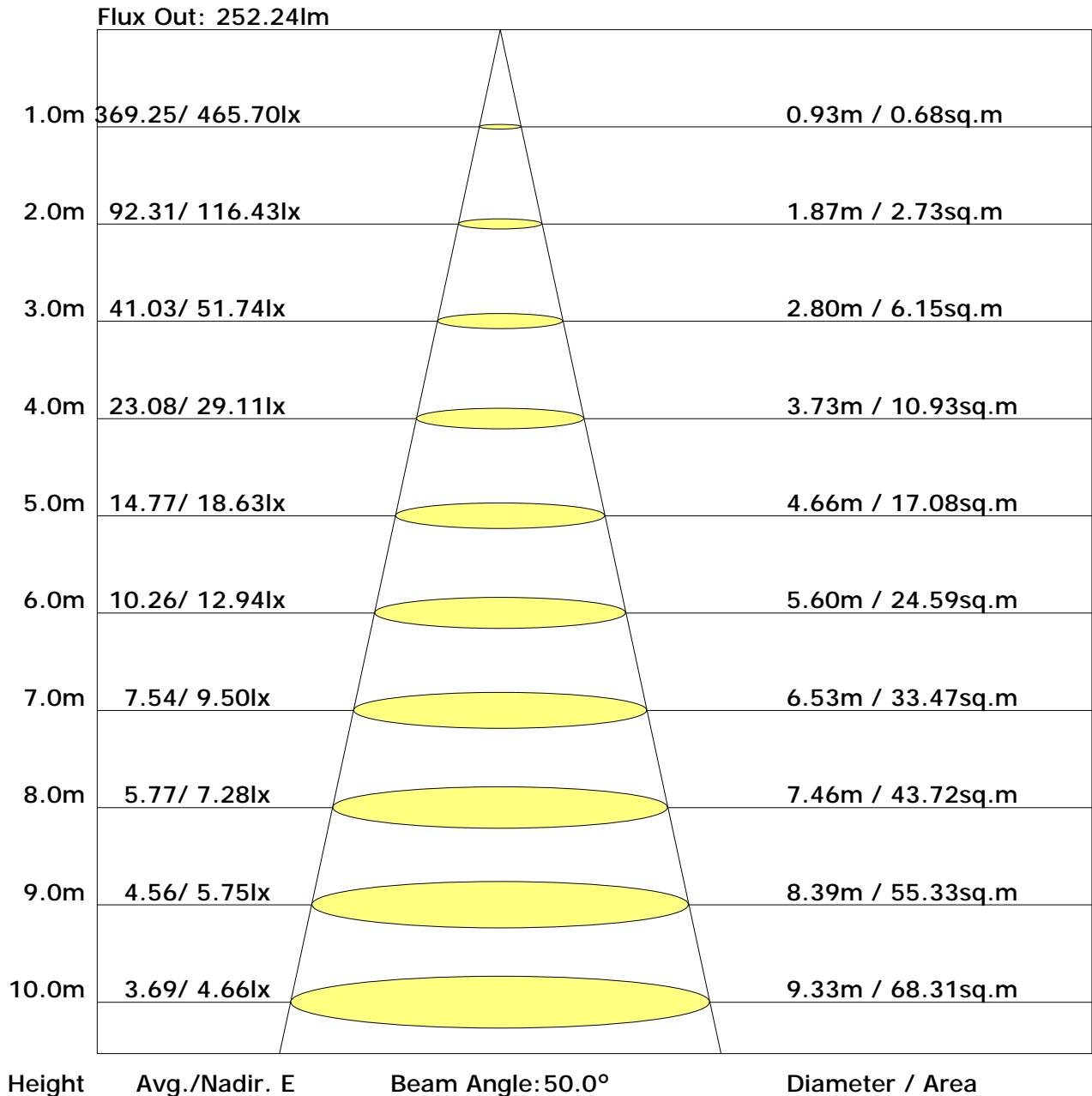


Area Flux Table

Unit: lm

		Orbit: int																		
-90	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	5.5	0.0
-80	0.0	0.2	0.4	0.8	1.2	1.7	2.0	2.3	2.4	2.4	2.1	1.8	1.3	0.9	0.5	0.2	0.1	0.0	20.3	17.0
-70	0.0	0.3	0.7	1.4	2.2	3.0	3.8	4.3	4.6	4.5	4.0	3.4	2.6	1.8	1.1	0.5	0.2	0.0	38.3	37.3
-60	0.1	0.4	1.0	2.0	3.2	4.4	5.5	6.2	6.7	6.5	5.9	5.0	3.9	2.7	1.7	0.8	0.2	0.0	56.2	55.7
-50	0.1	0.5	1.3	2.6	4.0	5.6	7.0	8.1	8.6	8.5	7.7	6.5	5.1	3.6	2.2	1.1	0.3	0.0	73.0	72.6
-40	0.1	0.6	1.6	3.1	4.8	6.7	8.4	9.8	10.5	10.3	9.4	7.9	6.2	4.3	2.7	1.3	0.4	0.0	88.1	87.8
-30	0.1	0.6	1.8	3.4	5.5	7.6	9.6	11.2	12.0	11.9	10.8	9.1	7.0	5.0	3.1	1.5	0.5	0.0	100.8	100.6
-20	0.1	0.7	1.9	3.7	5.9	8.3	10.5	12.3	13.2	13.0	11.8	10.0	7.8	5.5	3.4	1.7	0.5	0.1	110.3	110.1
-10	0.1	0.7	2.0	3.9	6.1	8.6	11.0	12.9	13.9	13.6	12.5	10.6	8.3	5.8	3.6	1.8	0.6	0.1	115.9	115.7
0	0.1	0.7	2.0	3.9	6.1	8.6	11.0	12.8	13.7	13.8	12.7	10.8	8.3	5.8	3.6	1.8	0.6	0.1	116.2	116.0
10	0.1	0.7	2.0	3.9	6.1	8.6	10.4	12.1	13.1	13.2	12.1	10.3	8.0	5.6	3.4	1.7	0.5	0.1	111.2	111.0
20	0.1	0.6	1.8	3.4	5.4	7.6	9.5	11.1	12.0	12.1	11.1	9.4	7.3	5.2	3.2	1.6	0.5	0.0	102.0	101.8
30	0.1	0.6	1.6	3.0	4.8	6.7	8.4	9.7	10.5	10.5	9.7	8.2	6.4	4.5	2.8	1.4	0.4	0.0	89.2	89.0
40	0.1	0.5	1.3	2.6	4.0	5.6	7.0	8.0	8.7	8.6	8.0	6.8	5.3	3.8	2.3	1.1	0.3	0.0	73.9	73.6
50	0.1	0.4	1.0	2.0	3.1	4.3	5.4	6.2	6.7	6.6	6.1	5.2	4.1	2.9	1.7	0.8	0.2	0.0	56.9	56.4
60	0.0	0.3	0.7	1.4	2.2	3.0	3.7	4.3	4.6	4.5	4.2	3.5	2.7	1.9	1.1	0.5	0.2	0.0	38.9	38.0
70	0.0	0.2	0.4	0.8	1.2	1.7	2.1	2.3	2.5	2.4	2.2	1.8	1.4	0.9	0.5	0.2	0.1	0.0	20.8	17.6
80	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	5.7	0.0
90	1.1	7.7	21.8	42.1	66.6	92.5	116.5	135.0	145.0	143.7	131.4	111.2	86.4	60.7	37.1	18.1	5.7	0.6	1223	
Flux(E)	0.1	6.3	20.5	40.8	65.3	91.2	115.3	133.7	143.7	142.5	130.1	109.9	85.1	59.4	35.8	16.7	3.9	0.0		1200
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	16.6	18.1	17.0	18.5	18.8	15.3	16.9	15.7	17.2	17.6
3H	18.2	19.6	18.6	19.9	20.3	16.6	18.1	17.0	18.4	18.8
4H	18.7	20.0	19.1	20.4	20.8	17.0	18.4	17.4	18.8	19.2
6H	19.0	20.2	19.4	20.6	21.1	17.2	18.5	17.7	18.9	19.3
8H	19.1	20.2	19.5	20.7	21.1	17.3	18.5	17.7	18.9	19.3
12H	19.1	20.2	19.5	20.6	21.1	17.3	18.4	17.7	18.8	19.3
X=4H Y=2H	16.9	18.2	17.3	18.6	19.0	15.9	17.2	16.3	17.6	18.0
3H	18.6	19.7	19.0	20.1	20.6	17.4	18.5	17.8	18.9	19.4
4H	19.2	20.2	19.6	20.6	21.1	17.9	18.9	18.3	19.3	19.8
6H	19.6	20.5	20.0	20.9	21.4	18.2	19.1	18.6	19.5	20.0
8H	19.6	20.5	20.1	21.0	21.5	18.2	19.0	18.7	19.5	20.0
12H	19.7	20.4	20.2	20.9	21.4	18.2	19.0	18.7	19.5	20.0
X=8H Y=4H	19.3	20.1	19.7	20.6	21.1	18.1	18.9	18.6	19.4	19.9
6H	19.7	20.4	20.2	20.9	21.4	18.4	19.1	19.0	19.7	20.2
8H	19.8	20.4	20.3	20.9	21.5	18.5	19.2	19.1	19.7	20.2
12H	19.8	20.4	20.4	20.9	21.5	18.6	19.1	19.1	19.6	20.2
X=12H Y=4H	19.2	20.0	19.7	20.5	21.0	18.1	18.9	18.6	19.4	19.9
6H	19.7	20.3	20.2	20.8	21.4	18.5	19.1	19.0	19.6	20.2
8H	19.8	20.3	20.3	20.9	21.5	18.6	19.1	19.1	19.7	20.3

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	0.57	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	0.55	0.65	0.72	0.77	0.84	0.88	0.92	0.96	0.99
	0.30		0.48	0.59	0.66	0.71	0.79	0.84	0.88	0.93	0.96
	0.20		0.43	0.53	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	0.95	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	0.60	0.52	0.47	0.39	0.33	0.28	0.23	0.19	
0.30	0.50	0.20	0.92	0.74	0.63	0.55	0.44	0.36	0.31	0.24	0.19	
	0.30		0.78	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.68	0.59	0.51	0.46	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: 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(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	0.17	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	0.13	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		0.10	0.12	0.13	0.14	0.16	0.17	0.17	0.18	0.19	
	0.20		0.06	0.08	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: 14W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												