

Report No.: 01

Test Time: 2016/9/7 12:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linearlyte

Luminaire Description: PS3 3500K SO

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.091 A

Power Factor: 0.939

Luminous Width (mm):

Voltage: 219.9 V

Power: 18.74 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1654.9 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H103.3

Vertical Diffuse Angle(50%): V106.1

Luminaire Efficacy Rating (LER): 88

Max. Intensity: 623.23 cd

Total Rated Lamp Lumens: 1654.9 lm

Efficiency: 100%

Upward Ratio: 1%

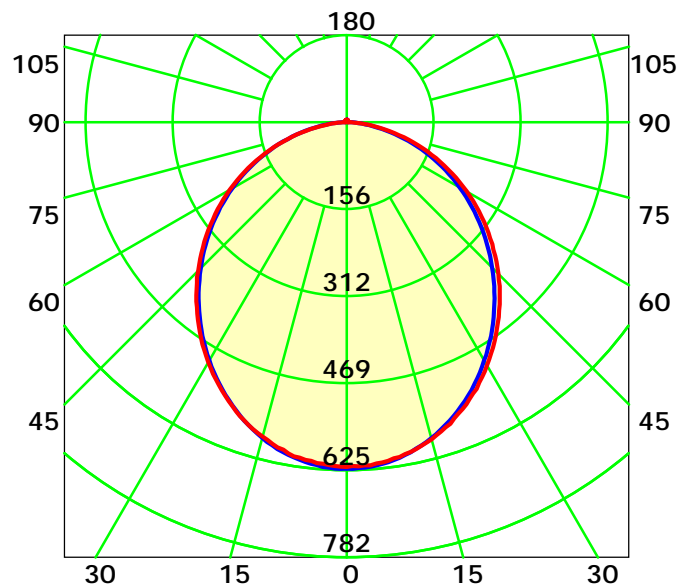
Central Intensity: 622.88 cd

Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 104.7° 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

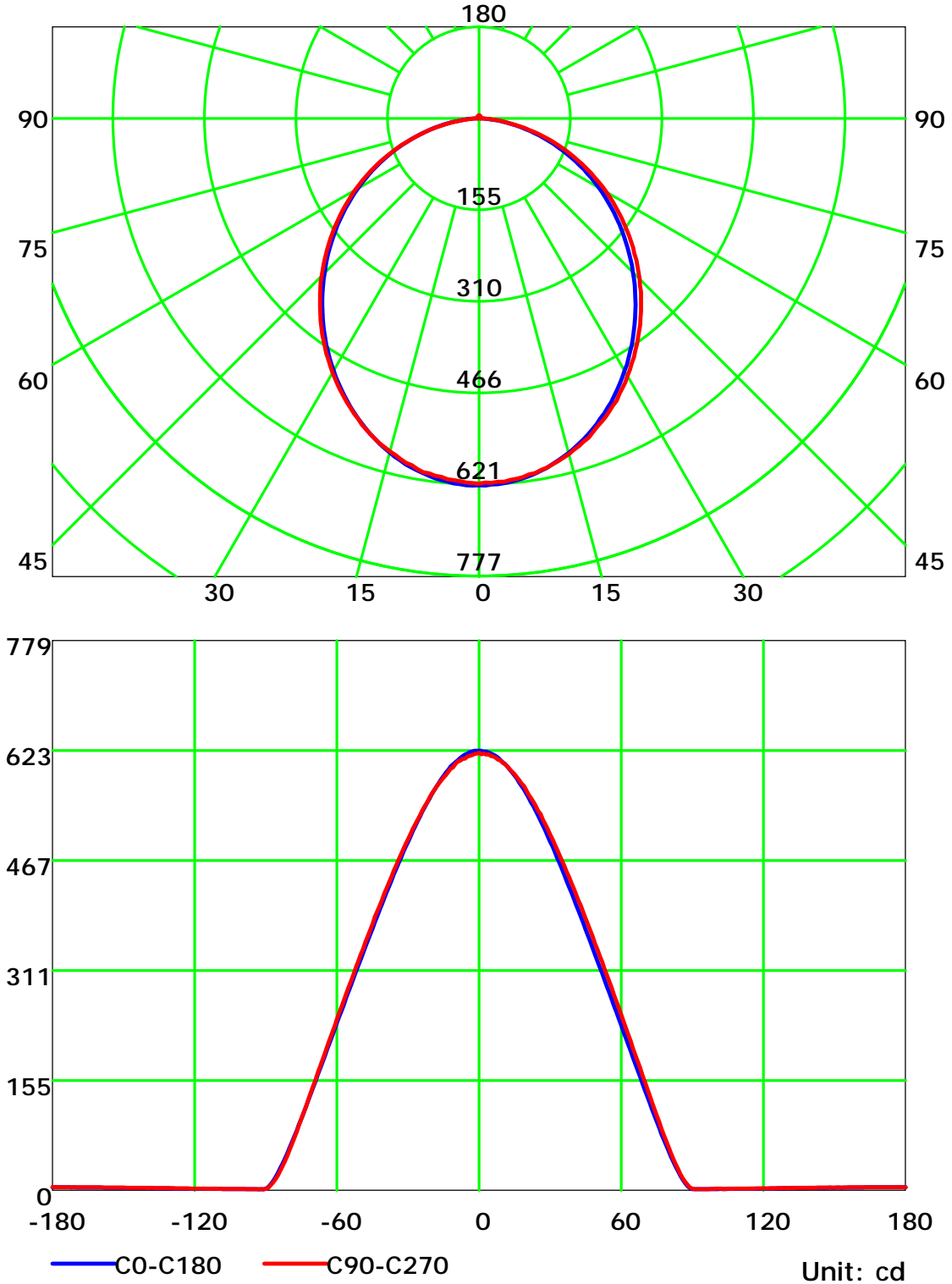
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

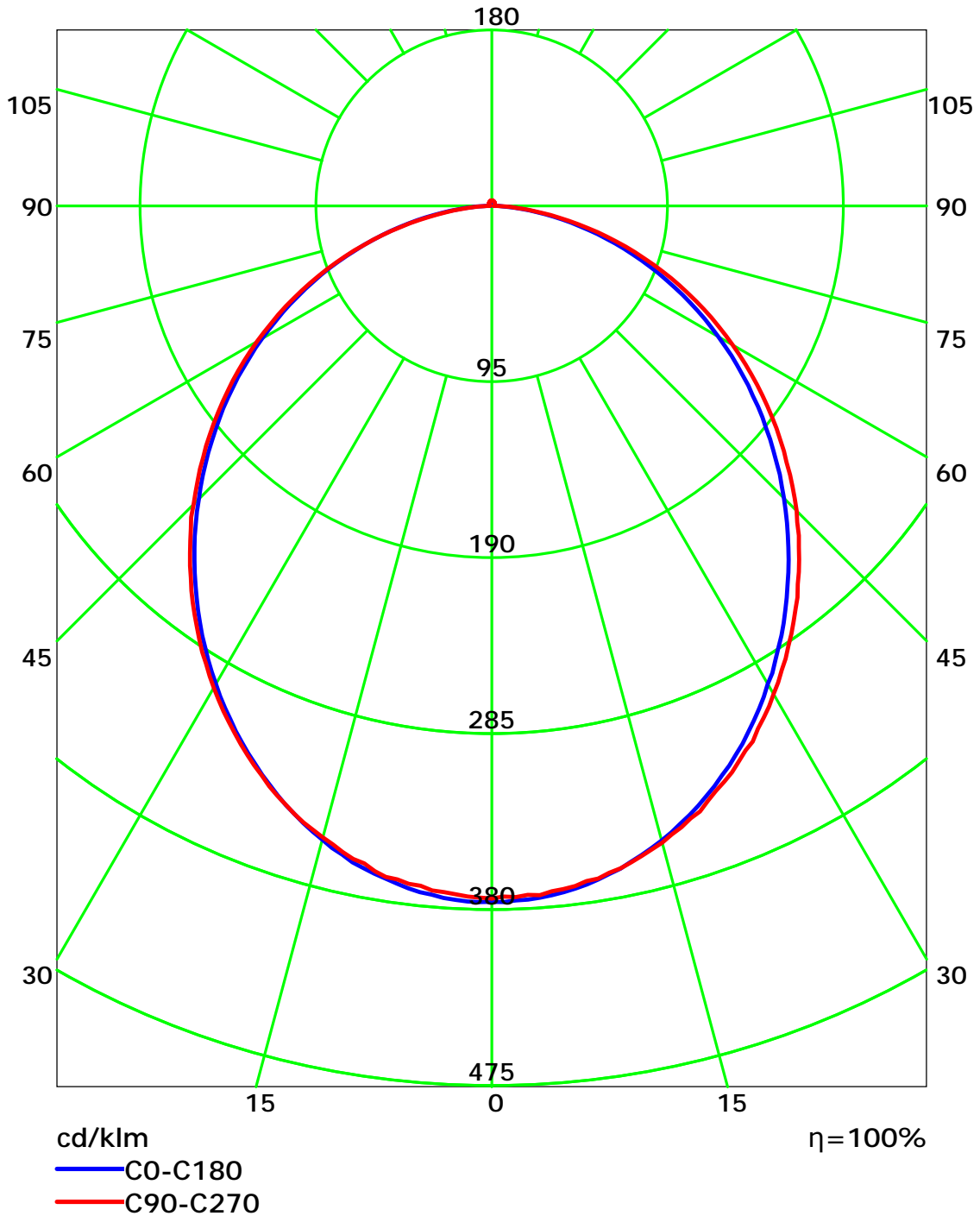
Luminous Intensity Distribution Curve



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:

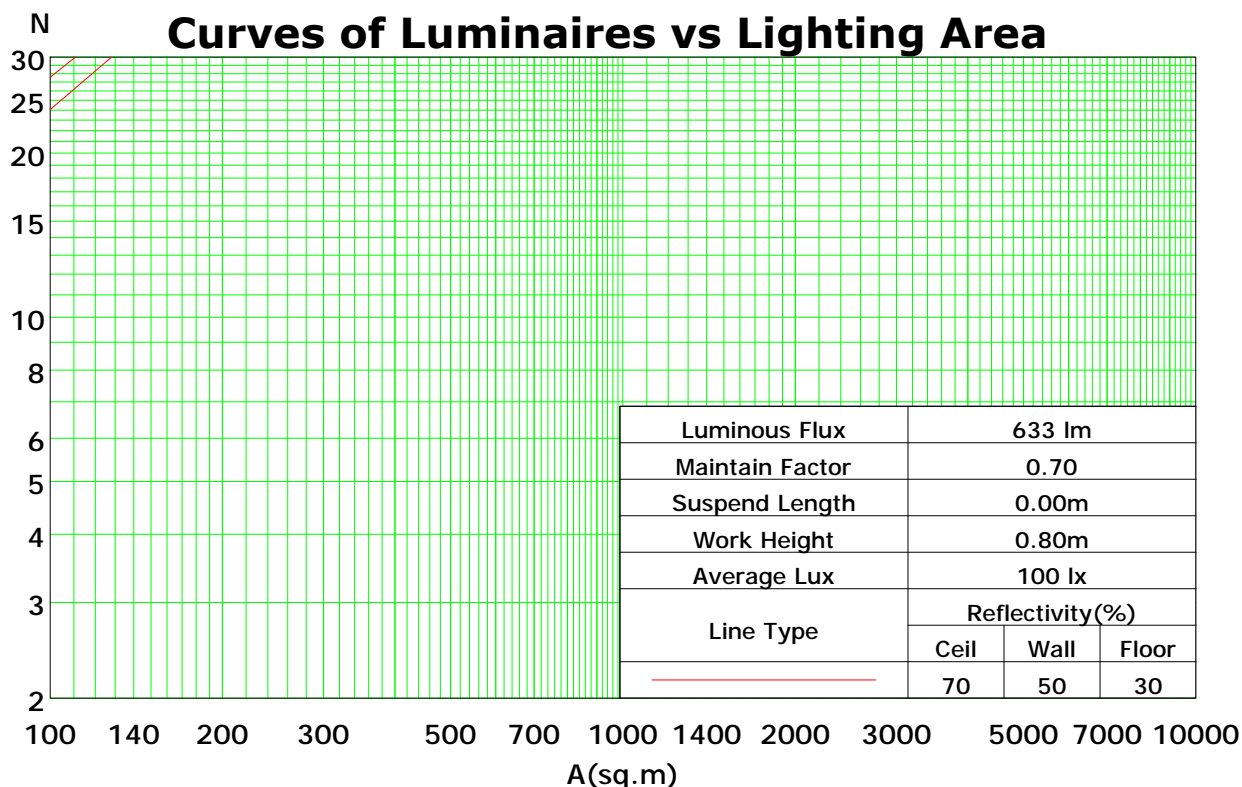
Coefficients Of Utilization - Zonal Cavity Method

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	94	97	94	91	93	90	88	89	87	85	83
2	99	91	84	78	96	89	83	77	85	80	75	82	77	73	78	75	72	69
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	69	65	61	59
4	83	71	62	56	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	44
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	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	44	35	30	55	43	35	30	42	35	30	41	34	29	39	33	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	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

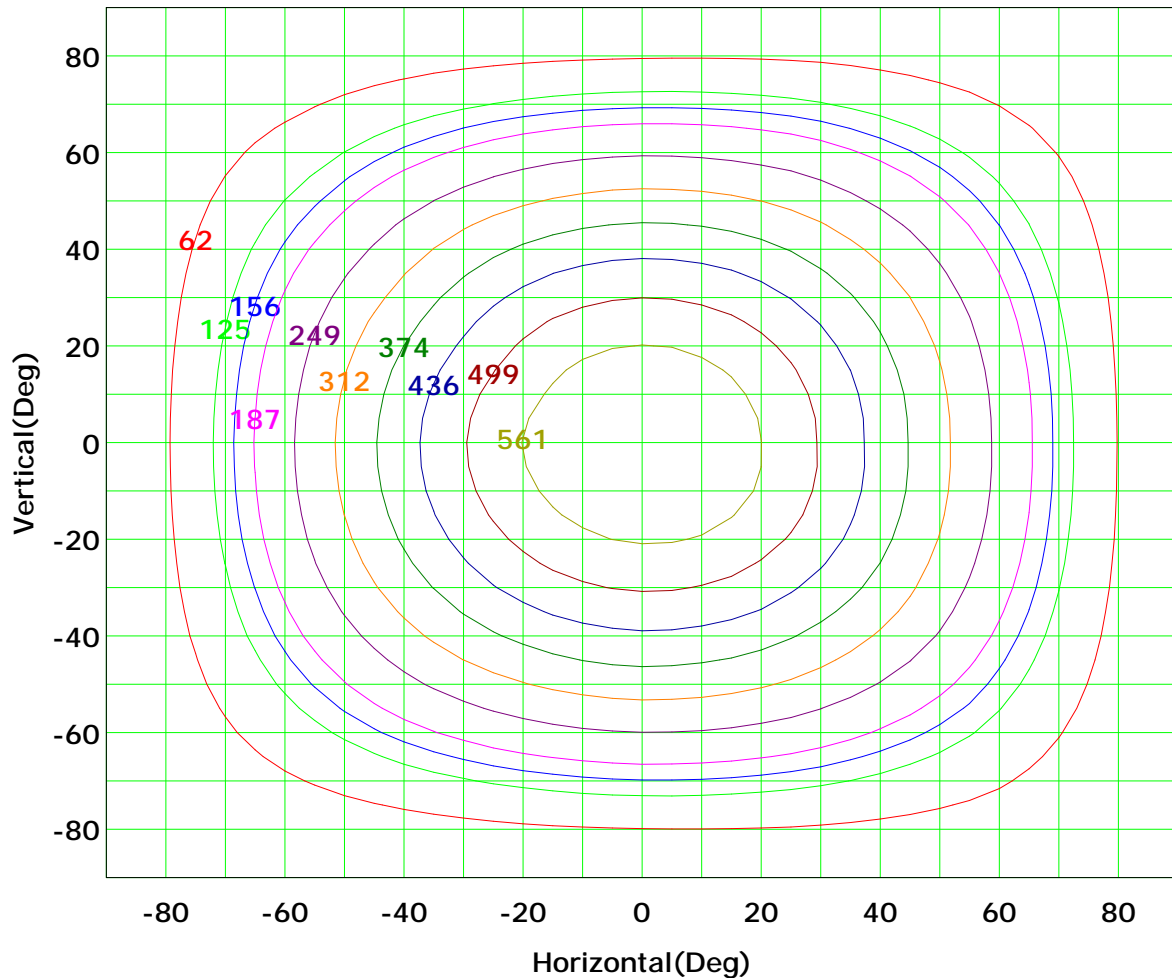
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 623 cd

(10%): 62 cd	(20%): 125 cd
(25%): 156 cd	(30%): 187 cd
(40%): 249 cd	(50%): 312 cd
(60%): 374 cd	(70%): 436 cd
(80%): 499 cd	(90%): 561 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

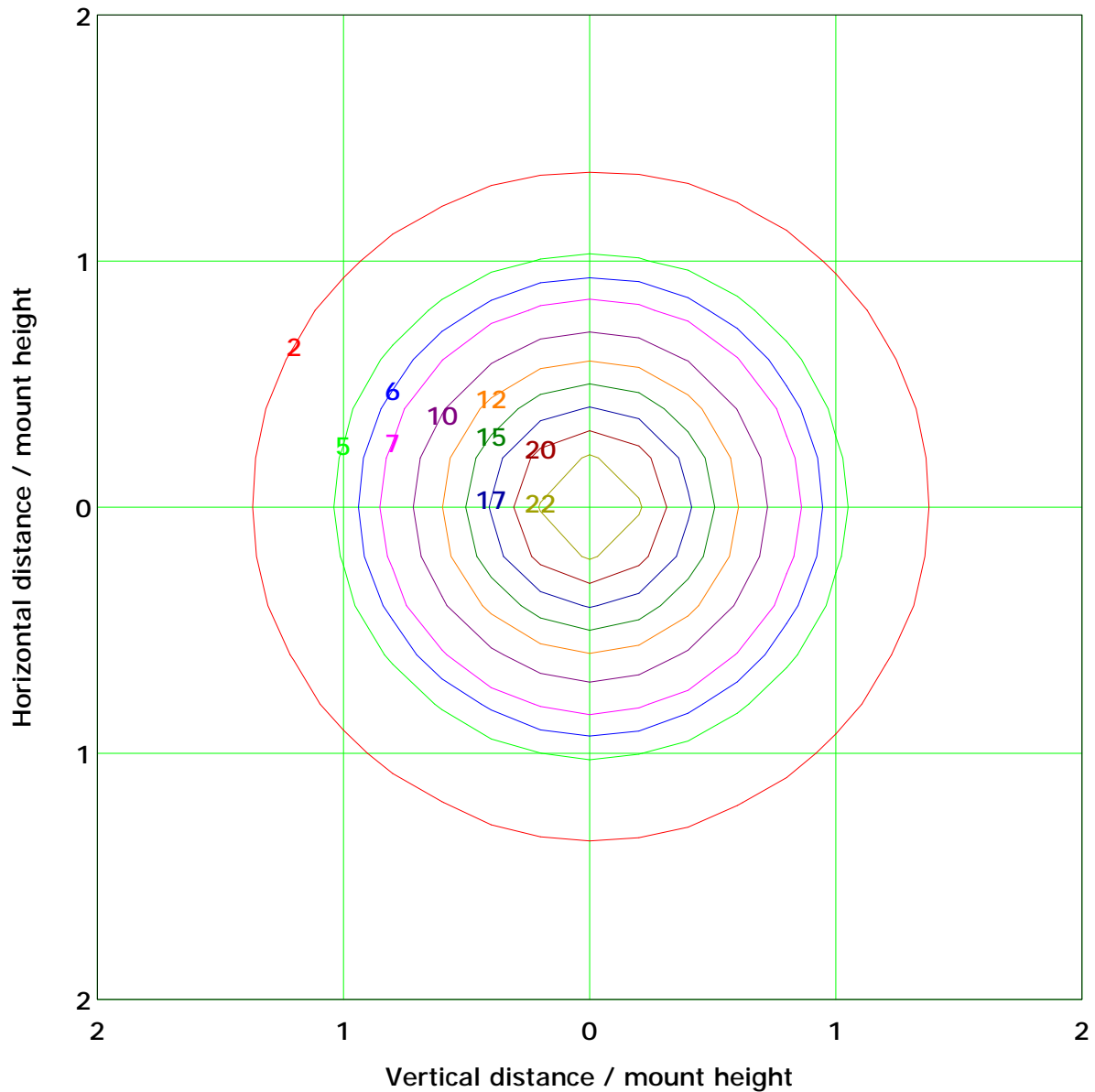
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 24.9 lx	
(10%): 2.5 lx	(20%): 5.0 lx
(25%): 6.2 lx	(30%): 7.5 lx
(40%): 10.0 lx	(50%): 12.5 lx
(60%): 15.0 lx	(70%): 17.4 lx
(80%): 19.9 lx	(90%): 22.4 lx

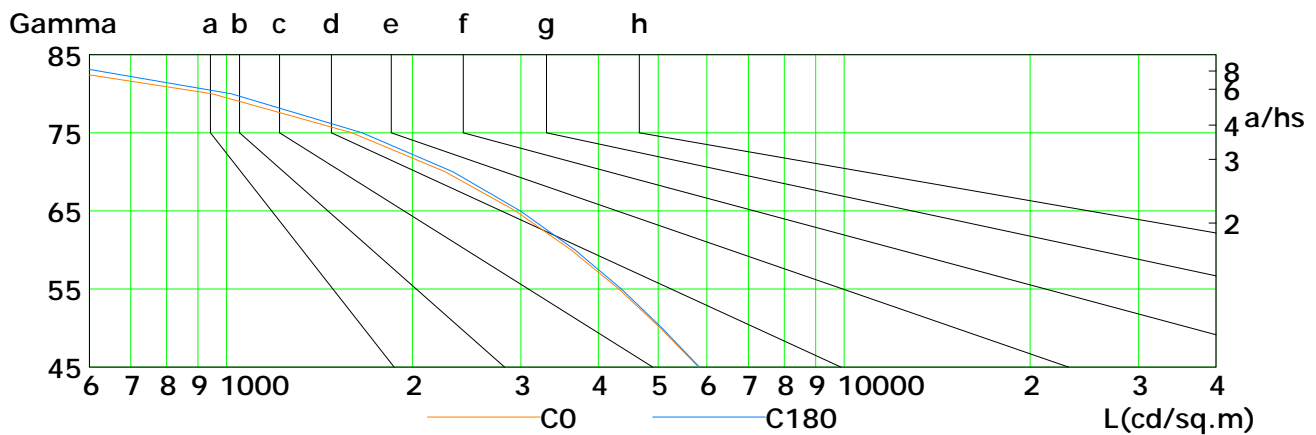
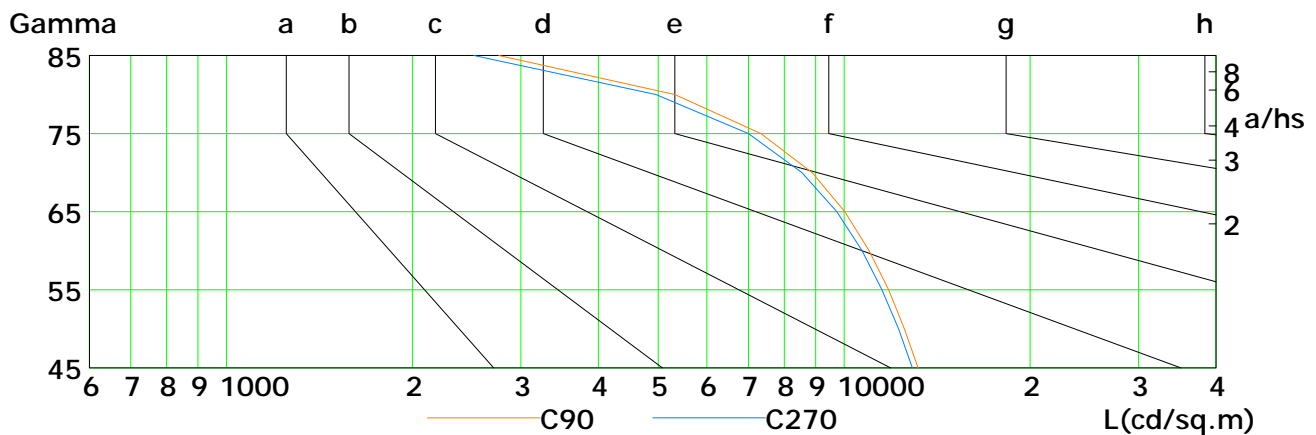
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator:

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

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	5814	5044	4321	3617	2938	2262	1597	948	371
C90	13188	12526	11804	10986	10035	8879	7334	5322	2762
C180	5834	5077	4359	3670	2993	2328	1659	1019	436
C270	12907	12256	11517	10702	9736	8544	7002	4961	2517

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

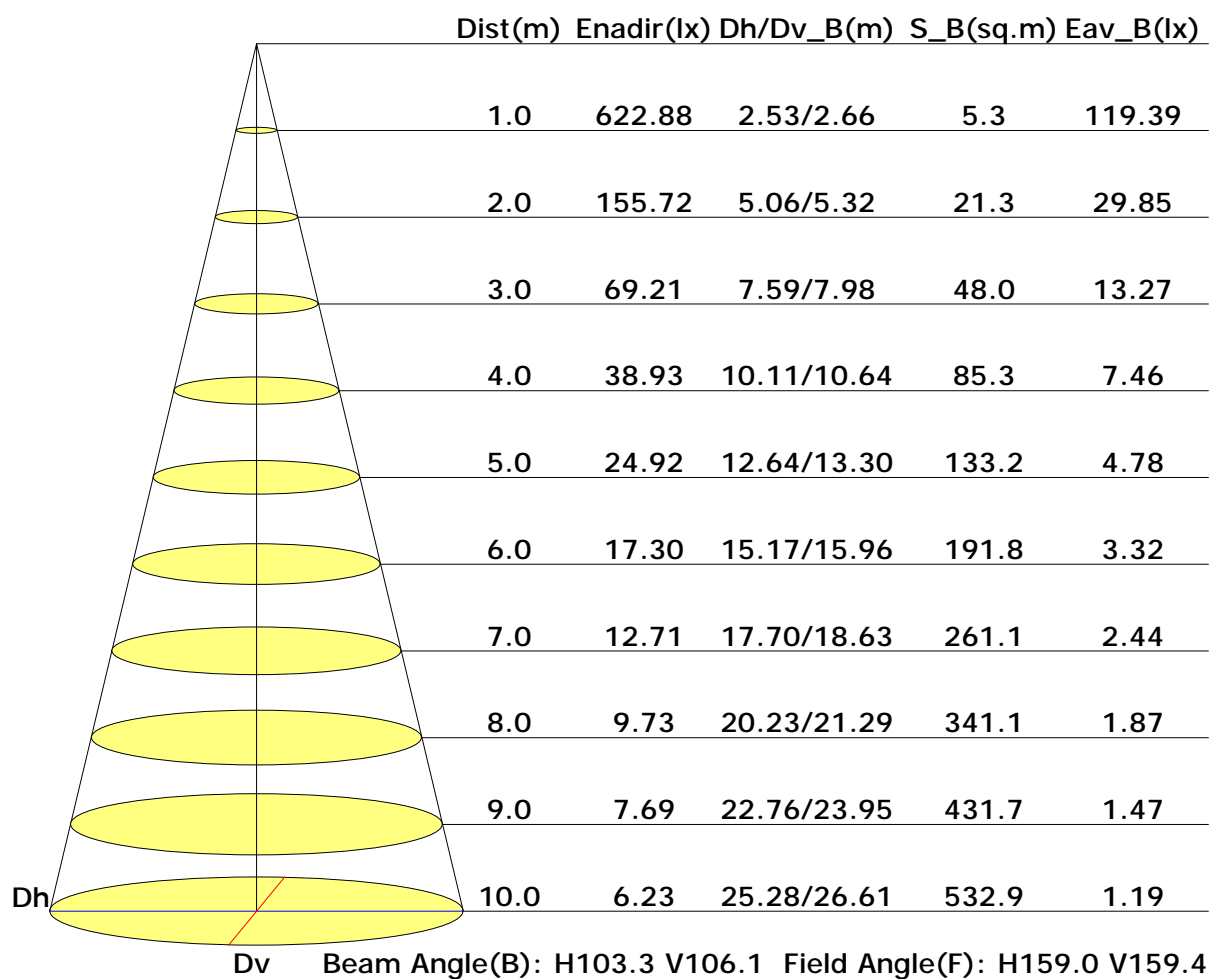
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

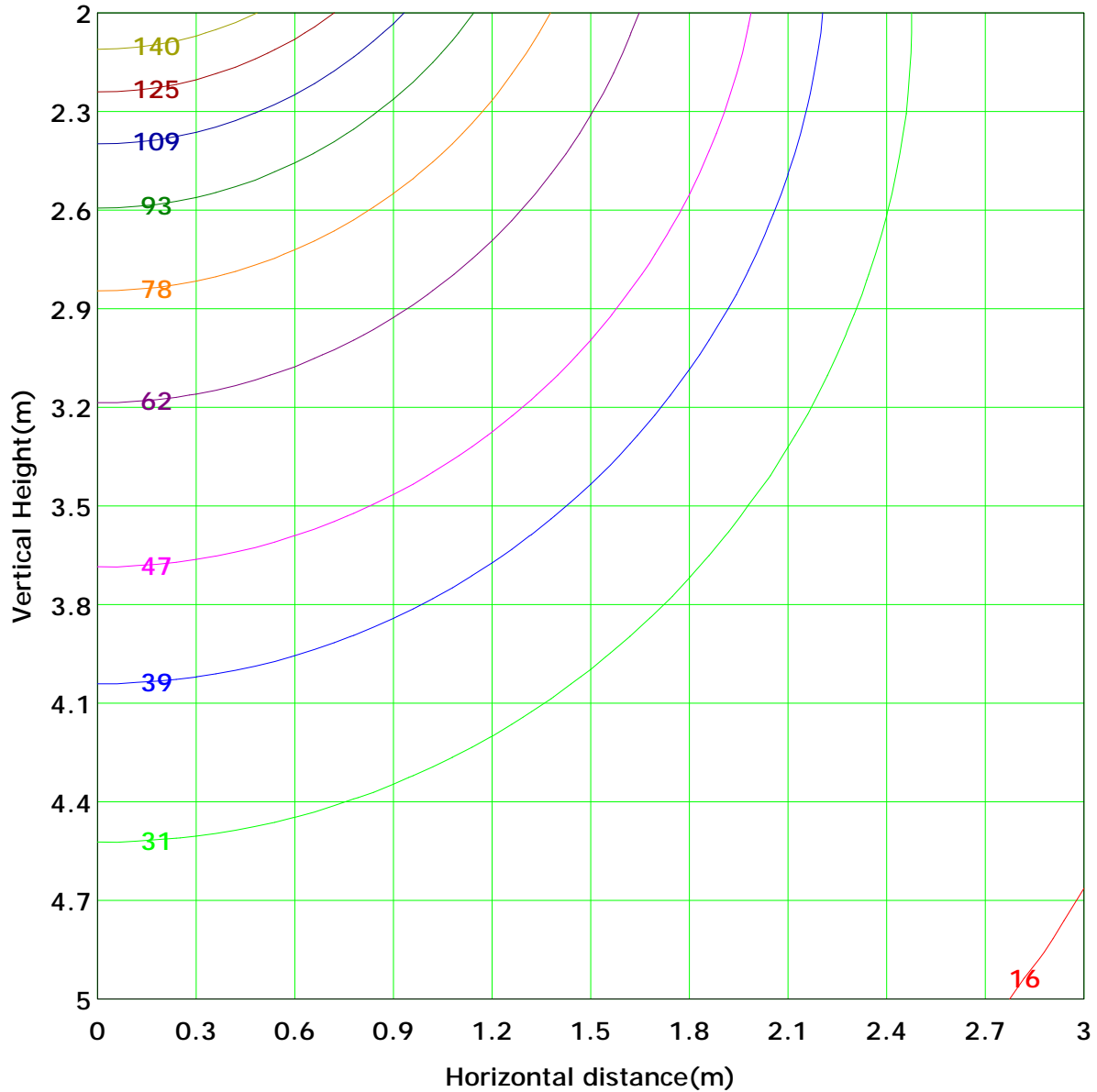
Illuminance at a Distance



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: 155.7 lx
(10%): 15.6 lx	(20%): 31.1 lx	
(25%): 38.9 lx	(30%): 46.7 lx	
(40%): 62.3 lx	(50%): 77.9 lx	
(60%): 93.4 lx	(70%): 109.0 lx	
(80%): 124.6 lx	(90%): 140.1 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

		Vertical plane																		Orbit, min		
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(E)	Flux(T)	0.0	0.1	0.1	0.3	0.4	0.6	0.7	0.7	0.8	0.7	0.7	0.6	0.5	0.4	0.3	0.1	0.1	0.0	0.0	6.4	0.0
		0.0	0.2	0.5	0.9	1.5	2.1	2.6	2.9	3.1	3.0	2.8	2.3	1.8	1.2	0.7	0.3	0.1	0.0	26.0	20.6	
		0.0	0.3	0.8	1.7	2.8	3.9	4.9	5.6	5.9	5.9	5.4	4.6	3.6	2.5	1.5	0.7	0.2	0.0	50.1	48.7	
		0.0	0.4	1.2	2.5	4.0	5.7	7.1	8.2	8.7	8.7	8.0	6.9	5.4	3.8	2.3	1.1	0.4	0.0	74.3	73.6	
		0.1	0.5	1.6	3.3	5.2	7.3	9.2	10.6	11.4	11.3	10.5	9.0	7.0	4.9	3.0	1.5	0.5	0.1	97.1	96.6	
		0.1	0.7	2.0	3.9	6.3	8.8	11.1	12.9	13.9	13.8	12.8	10.9	8.5	6.0	3.7	1.8	0.6	0.1	117.7	117.4	
		0.1	0.7	2.2	4.4	7.1	10.0	12.7	14.9	16.0	16.0	14.7	12.5	9.7	6.9	4.3	2.1	0.7	0.1	135.0	134.8	
		0.1	0.8	2.4	4.8	7.7	10.9	13.9	16.3	17.6	17.6	16.2	13.7	10.7	7.5	4.7	2.3	0.8	0.1	147.8	147.6	
		0.1	0.8	2.5	4.9	8.0	11.3	14.5	17.1	18.5	18.5	17.0	14.4	11.2	7.9	4.9	2.4	0.8	0.1	155.0	154.8	
		0.1	0.8	2.5	5.0	8.0	11.4	14.6	17.2	18.6	18.5	17.1	14.5	11.3	7.9	4.9	2.4	0.8	0.1	155.6	155.4	
		0.1	0.8	2.4	4.8	7.8	11.0	14.1	16.5	17.8	17.7	16.3	13.9	10.8	7.6	4.7	2.4	0.8	0.1	149.4	149.2	
		0.1	0.8	2.3	4.5	7.2	10.2	12.9	15.1	16.2	16.1	14.9	12.7	9.9	7.0	4.3	2.2	0.7	0.1	137.2	136.9	
		0.1	0.7	2.0	4.0	6.4	9.0	11.3	13.2	14.1	14.0	12.9	11.1	8.7	6.2	3.8	1.9	0.6	0.1	120.1	119.7	
		0.1	0.6	1.7	3.4	5.4	7.5	9.4	10.9	11.6	11.6	10.7	9.1	7.2	5.1	3.2	1.6	0.5	0.1	99.4	99.0	
		0.1	0.4	1.3	2.6	4.2	5.8	7.3	8.4	8.9	8.9	8.2	7.0	5.5	3.9	2.4	1.2	0.4	0.0	76.5	75.8	
		0.0	0.3	0.9	1.8	2.9	4.0	5.0	5.7	6.1	6.0	5.6	4.7	3.7	2.6	1.6	0.8	0.2	0.0	52.1	50.8	
		0.0	0.2	0.5	1.0	1.6	2.2	2.7	3.1	3.3	3.2	2.9	2.4	1.9	1.3	0.8	0.4	0.1	0.0	27.6	23.2	
		0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.8	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	0.0	7.3	0.0	
Flux(T)	1.1	9.2	27.3	54.2	86.9	122.0	154.8	180.0	193.2	192.2	177.2	150.8	117.7	82.9	50.9	25.2	8.2	0.9	1635			
Flux(E)	0.0	7.0	25.5	52.5	85.2	120.3	153.1	178.3	191.4	190.5	175.5	149.1	116.0	81.2	49.2	23.4	6.0	0.0			1604	
Horizontal plane																						

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

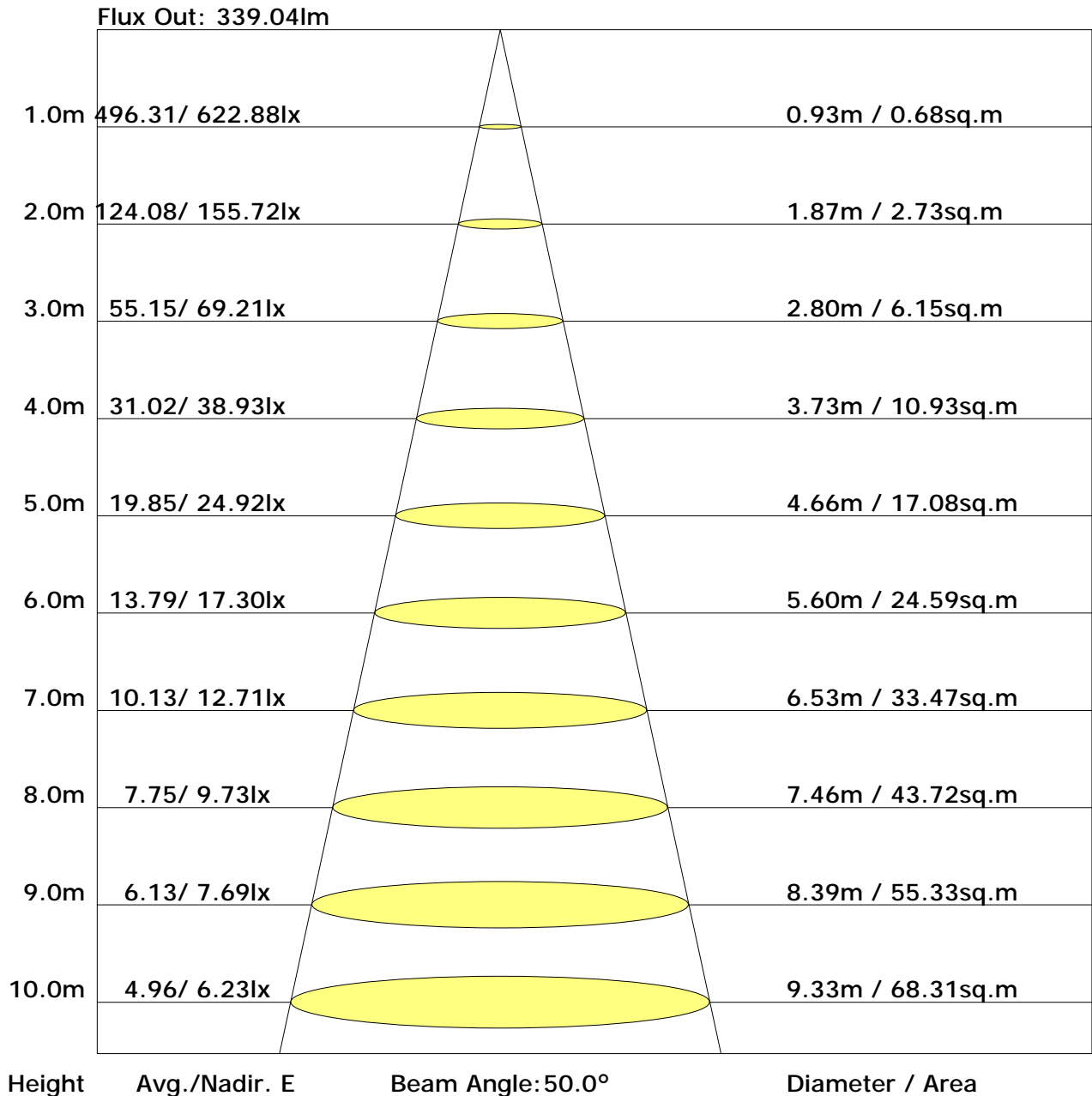
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

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	16.8	18.4	17.2	18.7	19.1	15.4	17.0	15.8	17.3	17.6
3H	18.4	19.8	18.8	20.2	20.6	16.7	18.1	17.1	18.5	18.8
4H	19.0	20.3	19.4	20.7	21.1	17.1	18.4	17.5	18.8	19.2
6H	19.3	20.6	19.7	21.0	21.4	17.3	18.5	17.7	18.9	19.3
8H	19.4	20.6	19.8	21.0	21.4	17.3	18.5	17.7	18.9	19.3
12H	19.4	20.6	19.9	21.0	21.4	17.3	18.4	17.7	18.9	19.3
X=4H Y=2H	17.1	18.4	17.5	18.8	19.2	15.9	17.3	16.4	17.7	18.1
3H	18.8	20.0	19.3	20.4	20.8	17.4	18.6	17.9	19.0	19.4
4H	19.5	20.5	19.9	20.9	21.4	17.9	18.9	18.4	19.4	19.8
6H	19.9	20.8	20.4	21.2	21.7	18.2	19.1	18.7	19.5	20.0
8H	20.0	20.8	20.5	21.3	21.8	18.2	19.1	18.7	19.5	20.0
12H	20.1	20.8	20.6	21.3	21.8	18.3	19.0	18.8	19.5	20.0
X=8H Y=4H	19.5	20.4	20.0	20.8	21.3	18.1	19.0	18.6	19.4	19.9
6H	20.0	20.7	20.5	21.2	21.7	18.5	19.2	19.0	19.7	20.2
8H	20.1	20.7	20.7	21.3	21.8	18.6	19.2	19.1	19.7	20.2
12H	20.2	20.8	20.7	21.3	21.9	18.6	19.1	19.1	19.7	20.2
X=12H Y=4H	19.5	20.3	20.0	20.8	21.3	18.2	18.9	18.7	19.4	19.9
6H	20.0	20.6	20.5	21.1	21.7	18.5	19.1	19.0	19.6	20.2
8H	20.1	20.7	20.7	21.2	21.8	18.6	19.2	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	0.68	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	0.66	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	0.67	0.75	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.54	0.63	0.70	0.75	0.81	0.85	0.88	0.92	0.95
	0.30		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	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	0.19
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	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	0.31	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	0.17	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	0.17	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: 19W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											