

Report No.: 01

Test Time: 2016/9/7 16:14

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linearlyte

Luminaire Description: PS3 3500K HO

Luminous Length (mm): 600

Luminous Height (mm): 90

Current: 0.116 A

Power Factor: 0.964

Luminous Width (mm): 60

Voltage: 219.8 V

Power: 24.61 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2249.9 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H106.1

Vertical Diffuse Angle(50%): V107

Luminaire Efficacy Rating (LER): 91

Max. Intensity: 835 cd

Total Rated Lamp Lumens: 2249.9 lm

Efficiency: 100%

Upward Ratio: 1%

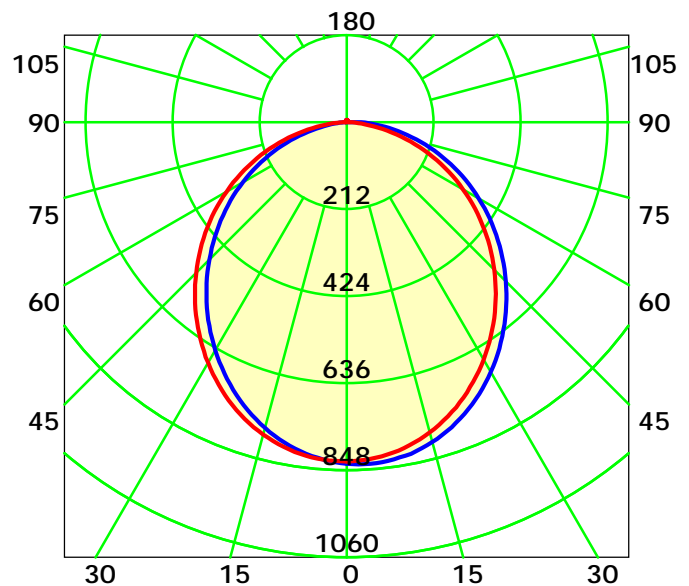
Central Intensity: 832.69 cd

Pos of Max. Intensity: H0 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 106.6° 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

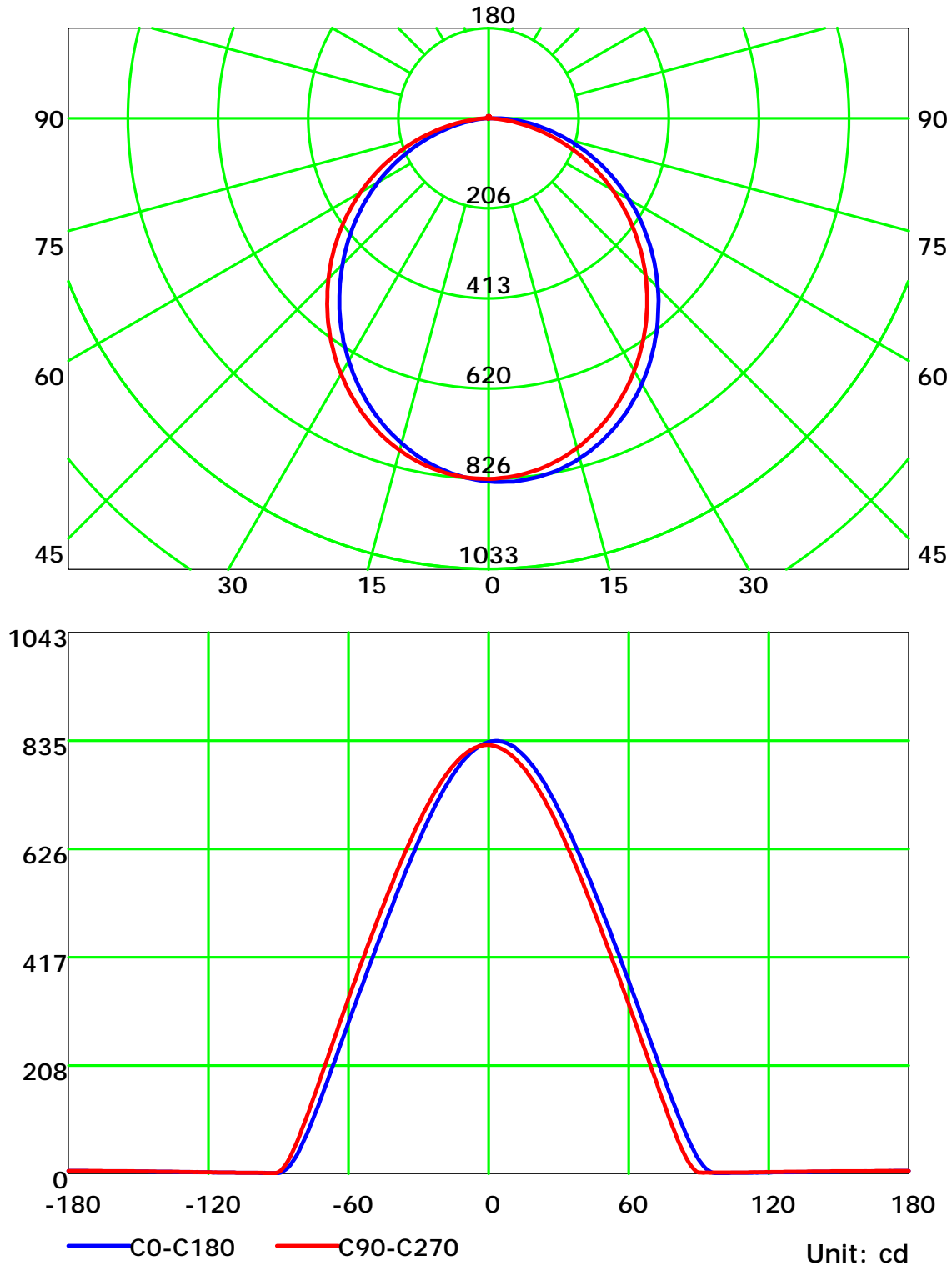
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

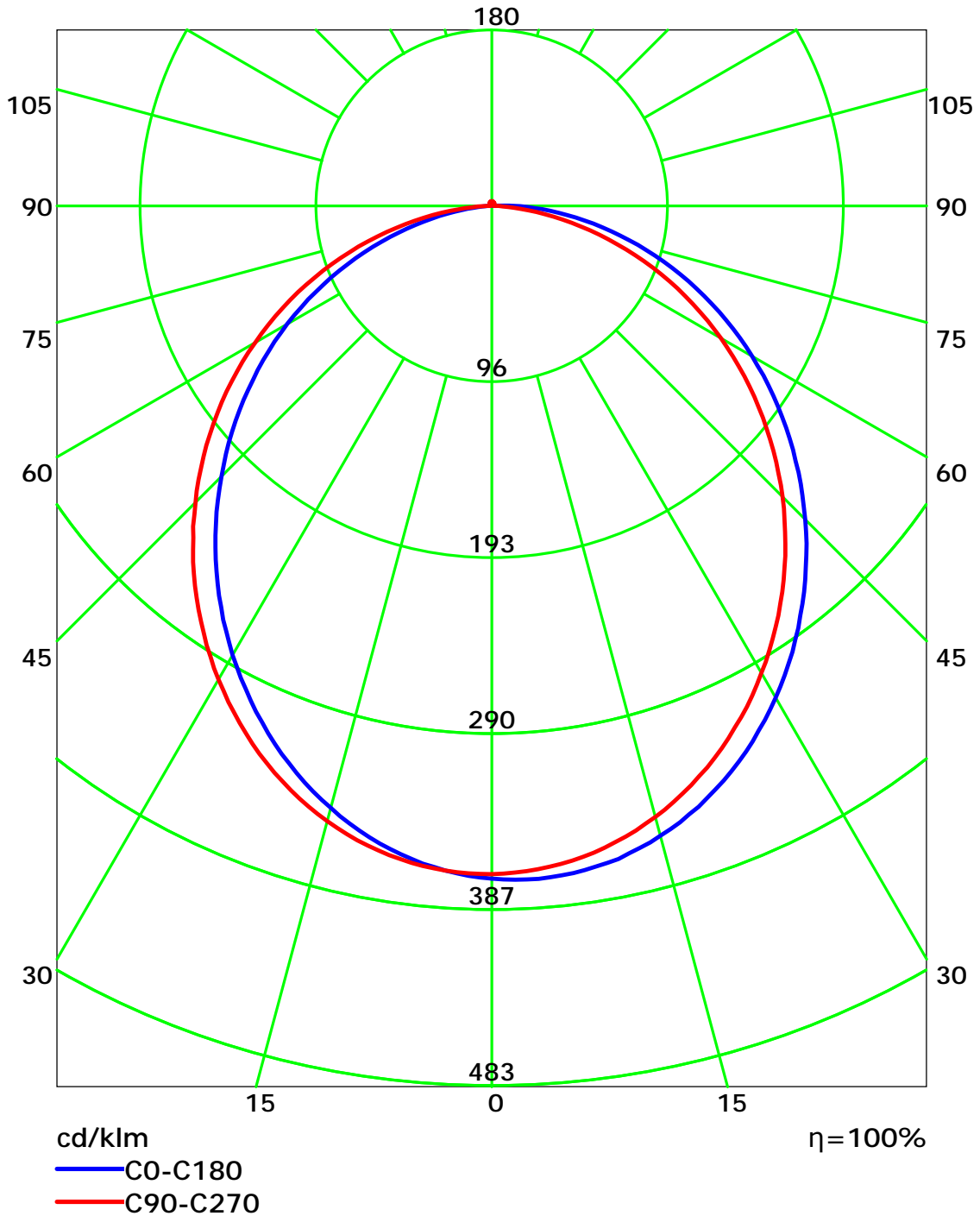
Luminous Intensity Distribution Curve



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:

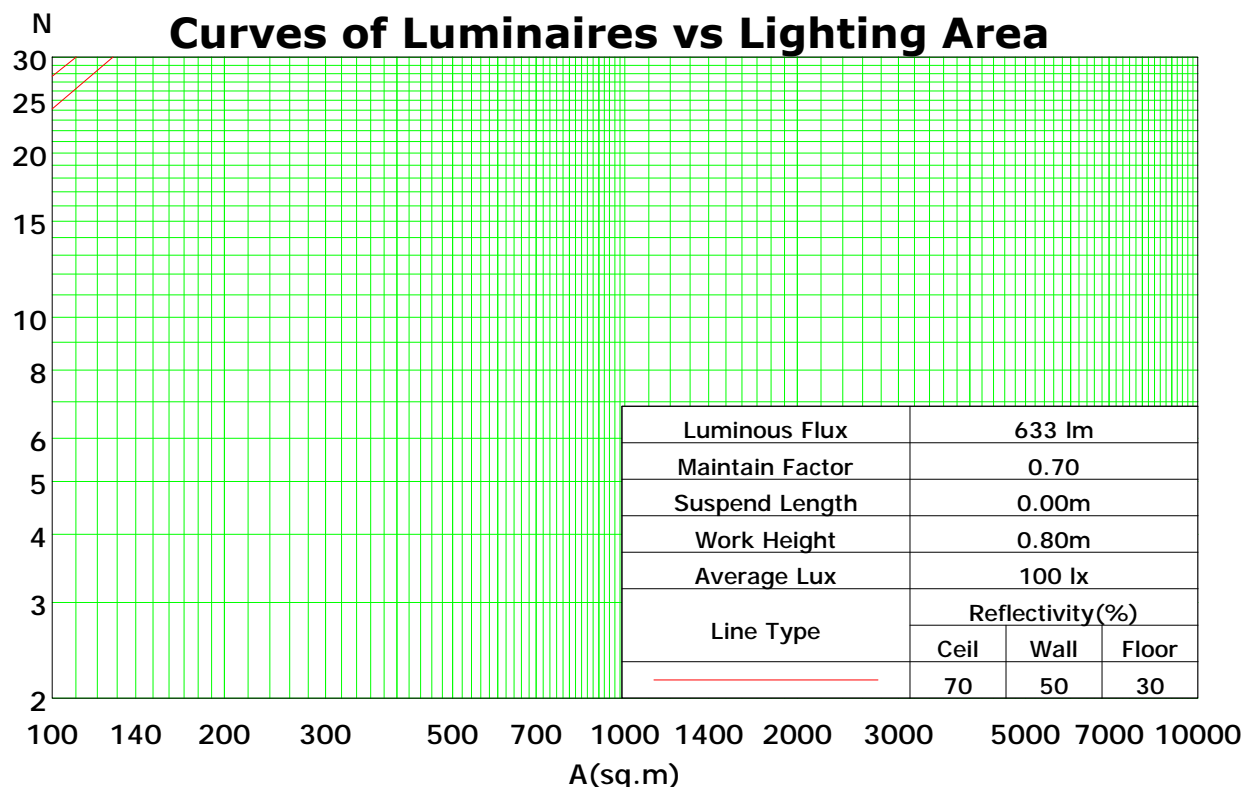
Coefficients Of Utilization - Zonal Cavity Method

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	111	111	111	106	106	106	101	101	101	99
1	109	104	99	96	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	84	78	96	88	82	77	85	80	75	81	77	73	78	75	71	69
3	90	80	71	65	87	78	70	64	75	68	63	72	66	62	69	64	61	58
4	82	71	62	55	80	69	61	55	66	59	54	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	42	36	32	30
9	57	43	35	30	55	43	35	29	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	30	26	24

Spacing Criteria (0-180): 1.20

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.32



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Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

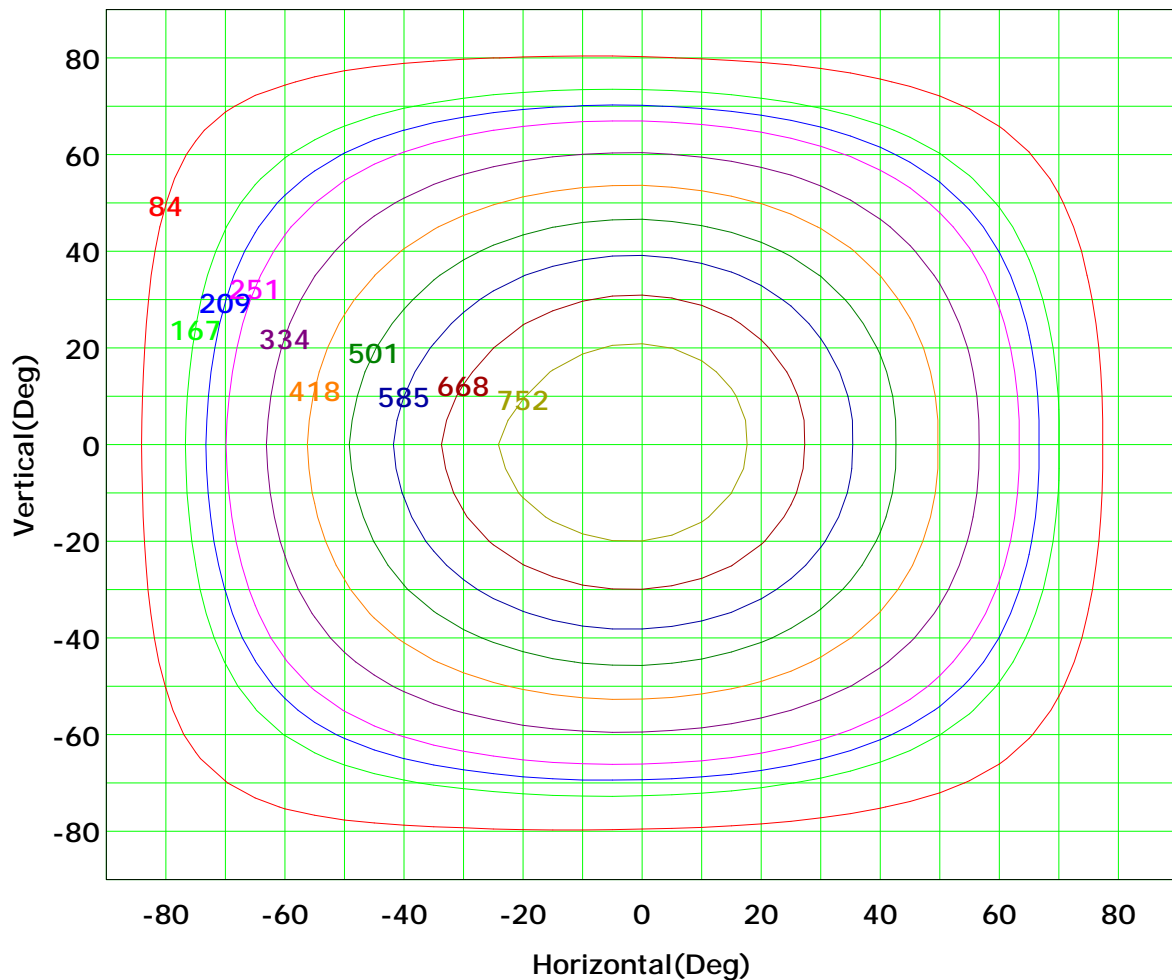
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



I_{max} (100%): 835 cd

(10%): 84 cd	(20%): 167 cd
(25%): 209 cd	(30%): 251 cd
(40%): 334 cd	(50%): 418 cd
(60%): 501 cd	(70%): 585 cd
(80%): 668 cd	(90%): 752 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

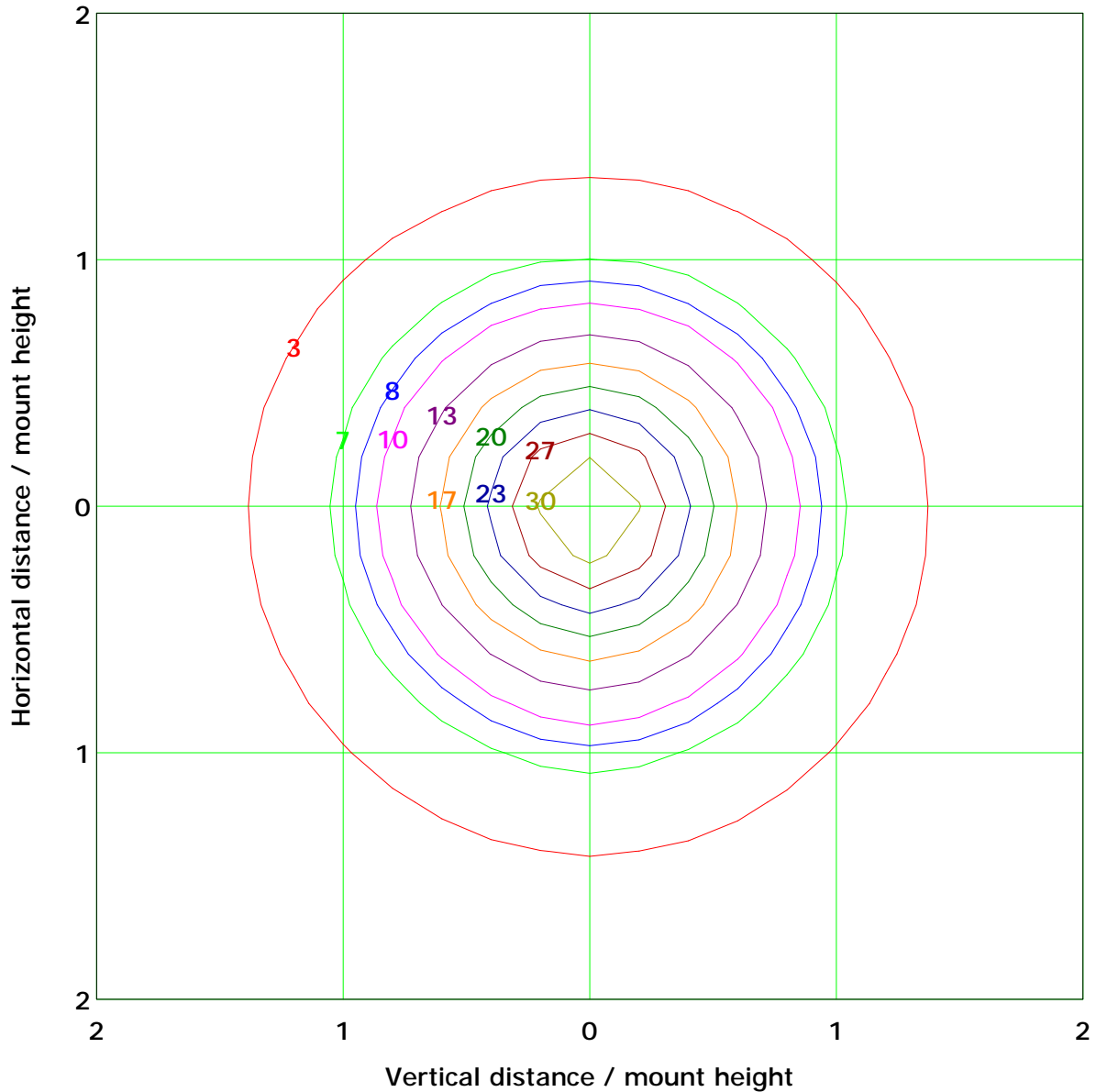
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 33.3 lx	
(10%): 3.3 lx	(20%): 6.7 lx
(25%): 8.3 lx	(30%): 10.0 lx
(40%): 13.3 lx	(50%): 16.7 lx
(60%): 20.0 lx	(70%): 23.3 lx
(80%): 26.7 lx	(90%): 30.0 lx

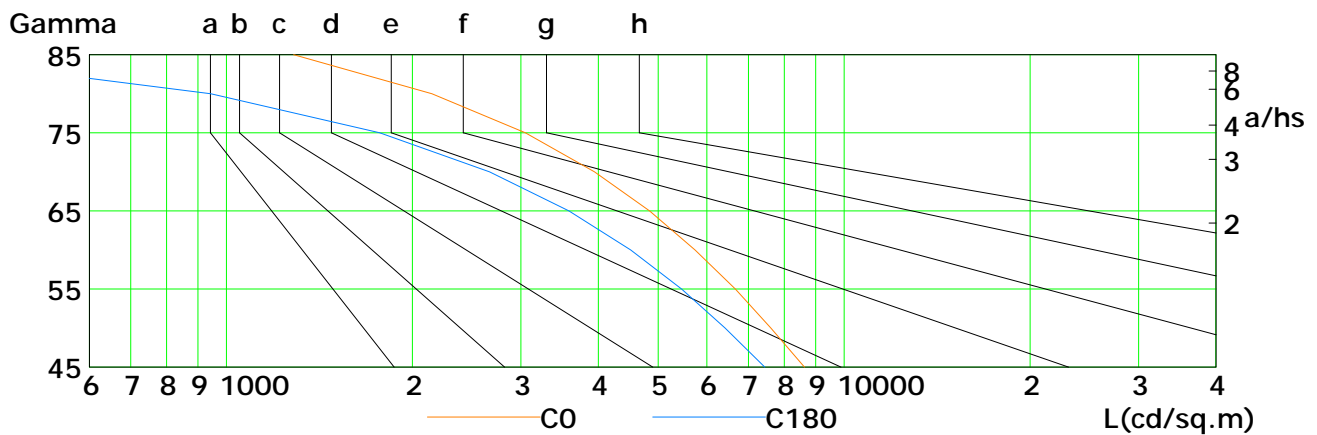
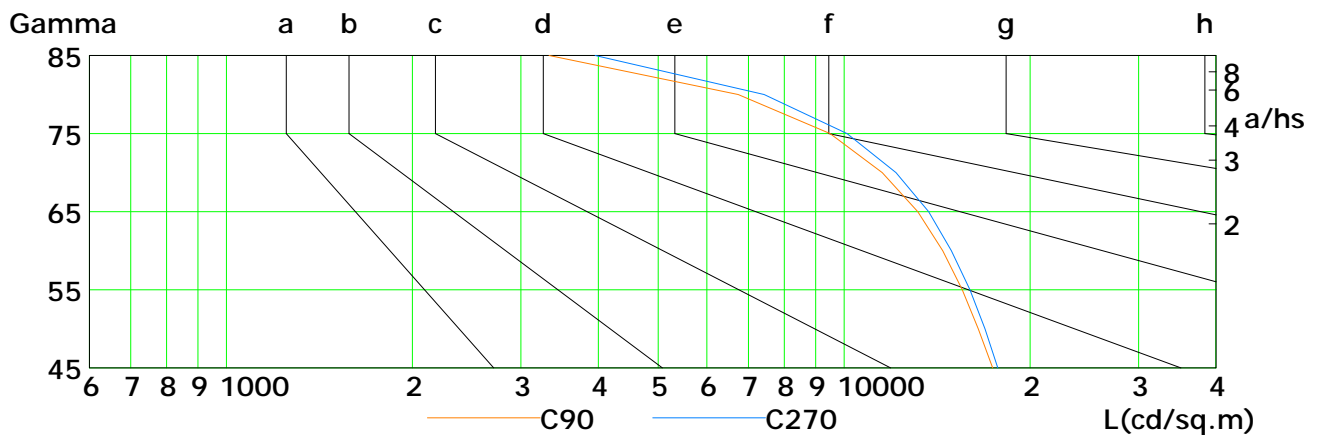
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
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Operator:

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	8629	7613	6666	5741	4844	3946	3048	2152	1285
C90	17396	16500	15543	14454	13166	11536	9489	6745	3329
C180	7443	6422	5456	4516	3584	2667	1773	944	305
C270	17733	16921	15997	14930	13707	12135	10113	7427	3957

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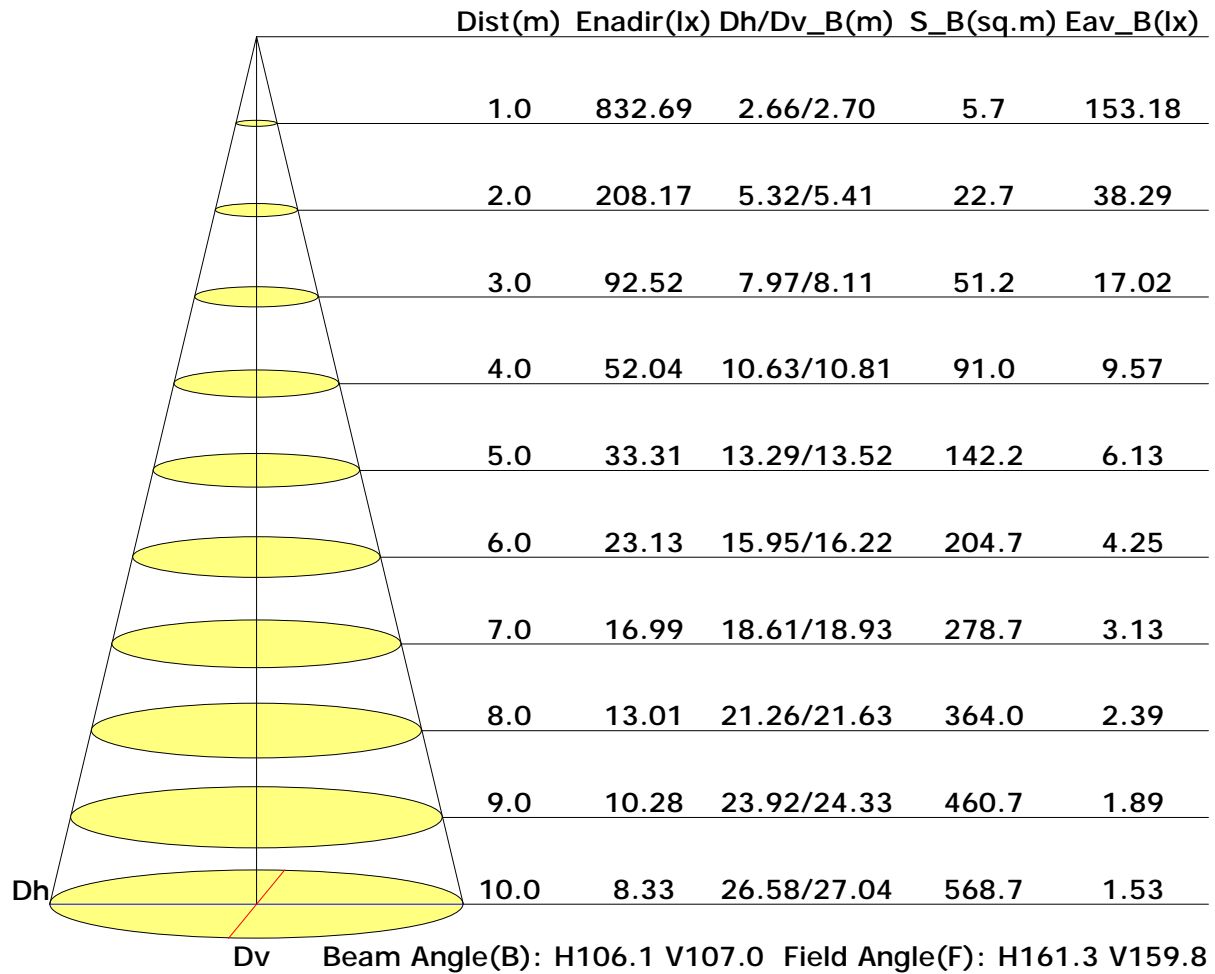
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

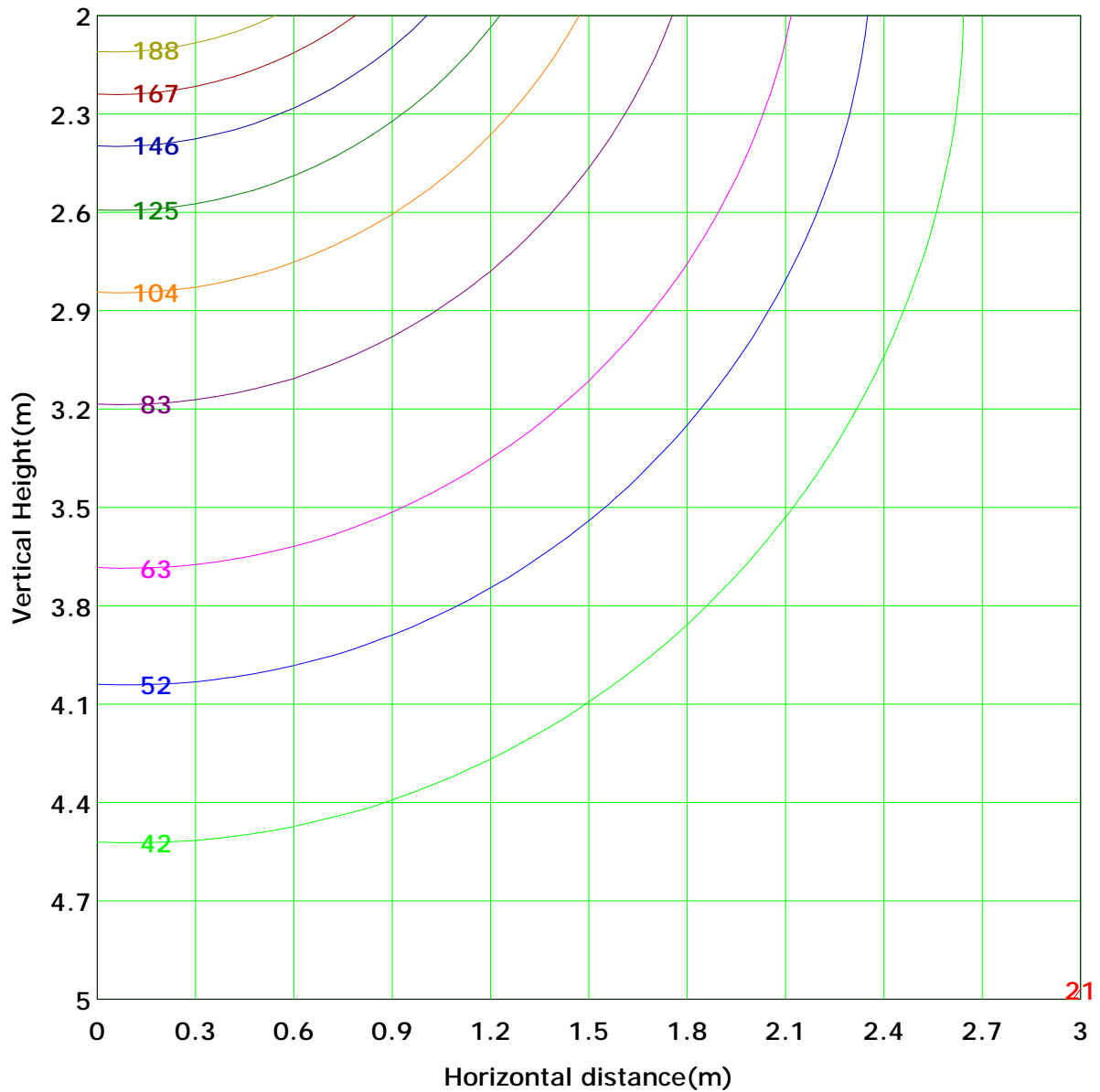
Illuminance at a Distance



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: 208.4 lx
(10%): 20.8 lx	(20%): 41.7 lx	
(25%): 52.1 lx	(30%): 62.5 lx	
(40%): 83.3 lx	(50%): 104.2 lx	
(60%): 125.0 lx	(70%): 145.9 lx	
(80%): 166.7 lx	(90%): 187.5 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																		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)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

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Gamma Plane (°): 0.0-180.0: 1.0

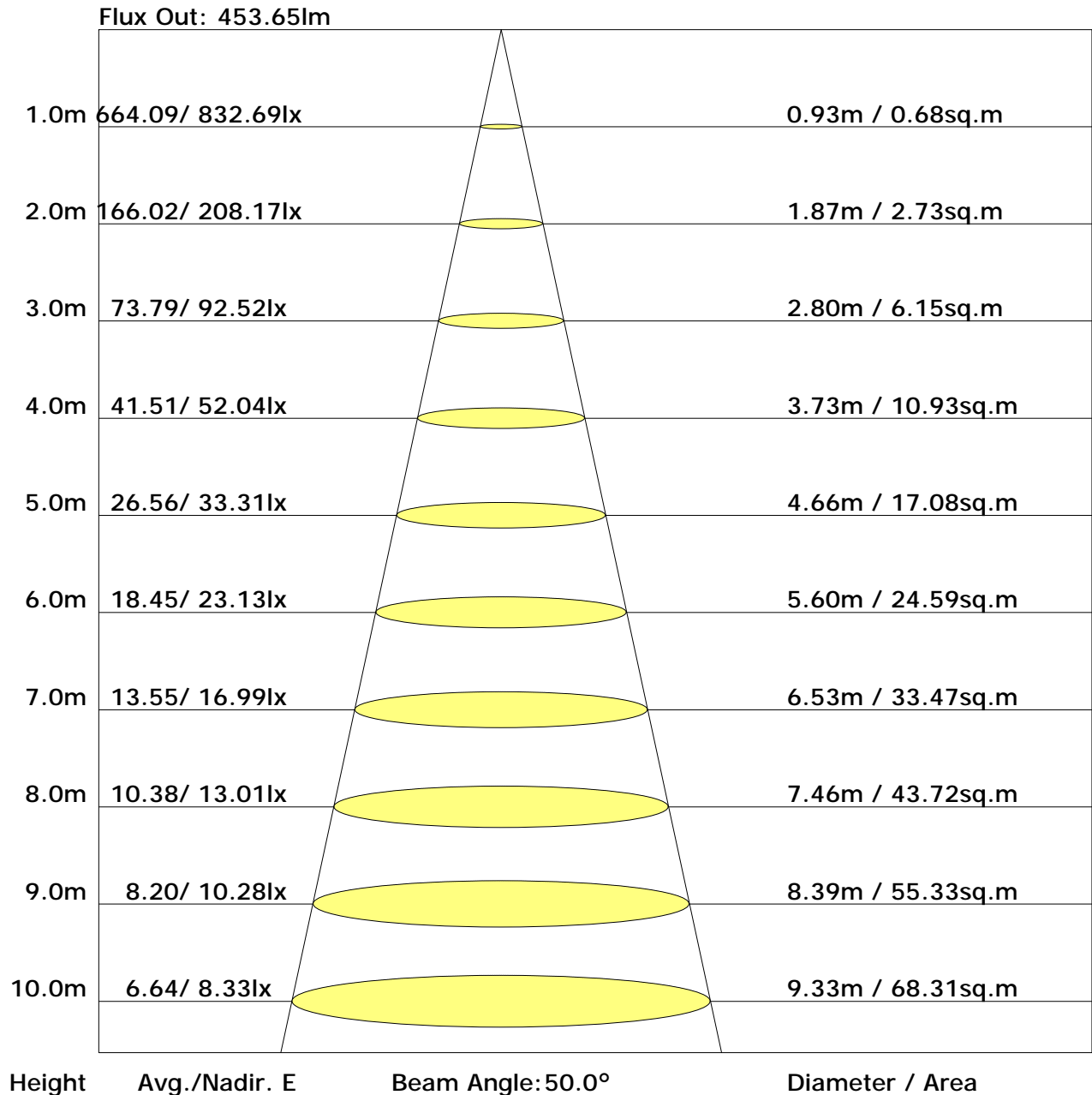
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

The Average Illuminance Effective Figure



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:

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	17.6	19.2	18.0	19.5	19.9	15.2	16.8	15.6	17.1	17.5
3H	19.5	21.0	19.9	21.3	21.7	16.5	17.9	16.9	18.3	18.6
4H	20.3	21.6	20.7	22.0	22.4	16.8	18.2	17.3	18.6	19.0
6H	20.9	22.1	21.3	22.5	22.9	17.0	18.3	17.5	18.7	19.1
8H	21.1	22.3	21.5	22.7	23.1	17.1	18.3	17.5	18.7	19.1
12H	21.2	22.4	21.7	22.8	23.3	17.1	18.2	17.5	18.6	19.1
X=4H Y=2H	17.9	19.3	18.3	19.6	20.0	15.8	17.2	16.2	17.5	17.9
3H	19.9	21.1	20.4	21.5	21.9	17.2	18.4	17.7	18.8	19.2
4H	20.8	21.8	21.2	22.2	22.7	17.7	18.7	18.2	19.2	19.6
6H	21.5	22.4	22.0	22.8	23.3	18.0	18.9	18.5	19.3	19.8
8H	21.7	22.6	22.2	23.1	23.5	18.0	18.9	18.5	19.3	19.8
12H	22.0	22.7	22.5	23.2	23.7	18.0	18.8	18.5	19.3	19.8
X=8H Y=4H	20.9	21.7	21.3	22.2	22.7	18.0	18.8	18.4	19.3	19.8
6H	21.6	22.3	22.1	22.8	23.3	18.3	19.0	18.8	19.5	20.0
8H	21.9	22.6	22.5	23.1	23.6	18.4	19.0	18.9	19.5	20.0
12H	22.2	22.8	22.7	23.3	23.9	18.4	19.0	18.9	19.5	20.1
X=12H Y=4H	20.9	21.6	21.3	22.1	22.6	18.0	18.8	18.5	19.3	19.7
6H	21.6	22.3	22.2	22.7	23.3	18.3	19.0	18.9	19.5	20.0
8H	21.9	22.5	22.5	23.0	23.6	18.4	19.0	19.0	19.5	20.1

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	0.86	0.91	0.96	1.00
	0.20		0.44	0.54	0.61	0.67	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	0.58	0.66	0.71	0.79	0.84	0.87	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	0.95
	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: 25W 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	0.99	0.82	0.70	0.61	0.48	0.40	0.34	0.27	0.22
	0.30		0.82	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20
0.50	0.50	0.20	0.95	0.78	0.67	0.58	0.46	0.42	0.33	0.25	0.21
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	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
0.30	0.50	0.20	0.92	0.75	0.64	0.56	0.44	0.36	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		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18
0.00	0.00	0.00	0.59	0.49	0.42	0.37	0.30	0.25	0.22	0.17	0.14
Rating: 25W 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	0.21	0.22	0.22	0.23
	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	0.17	0.18
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.17	0.19	0.19
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	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		0.05	0.07	0.08	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: 25W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											