



Complete Integrated LED Lighting Solutions

Acolyte LED

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Page 1 of 15 Pages

Report No.:

Test Time: 2018/1/8 13:29

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: DMX RIBBONLYTE RGB (ALL)

Luminaire Description: DMX RIBBONLYTE RGB (ALL)

Luminous Length (mm): 1000

Luminous Width (mm): 18

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.565 A

Power: 13.55 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 330.7 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(50%): H117.8

Vertical Diffuse Angle(50%): V113.8

Luminaire Efficacy Rating (LER): 24

Max. Intensity: 106.31 cd

Total Rated Lamp Lumens: 330.7 lm

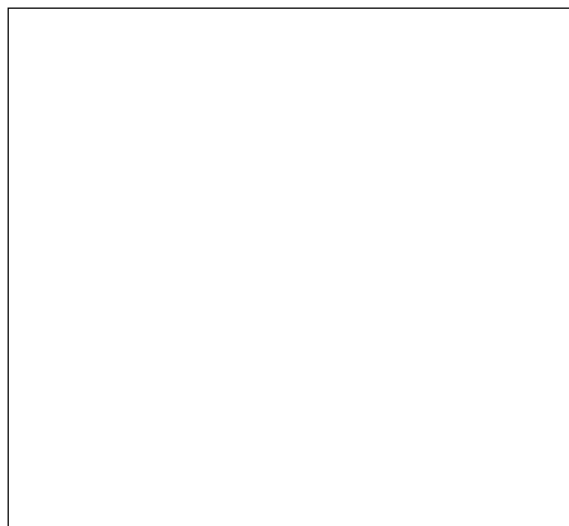
Efficiency: 100%

Upward Ratio: 2%

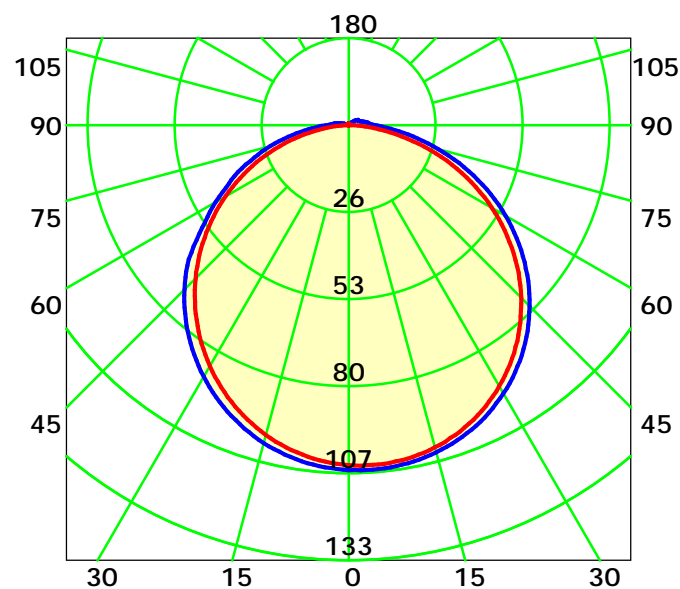
Central Intensity: 106.19 cd

Pos of Max. Intensity: H0 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 115.8° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

Test Device: GPM-1800B

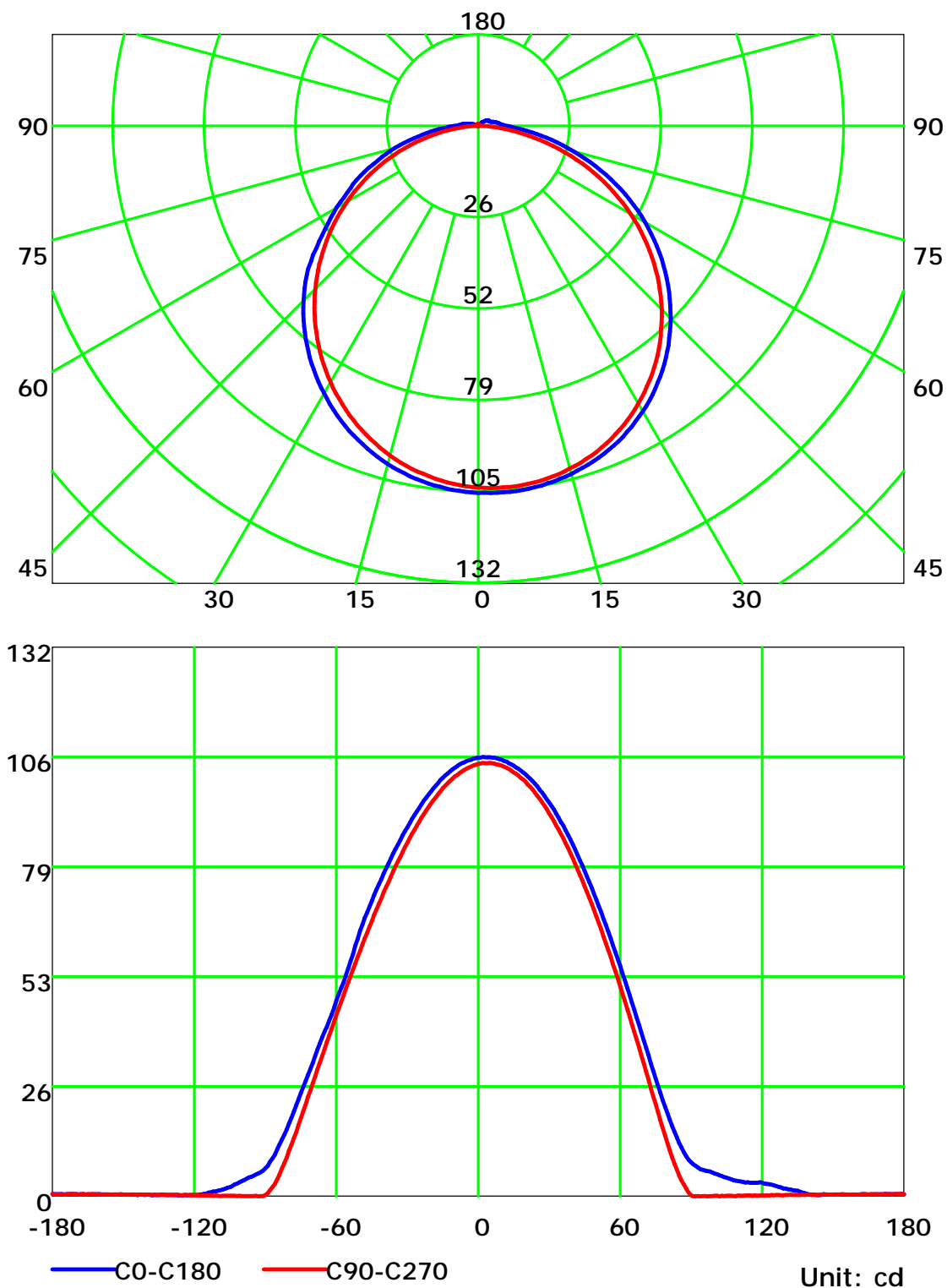
Distance: 9.028 m

Humidity: 60%

Inspector:



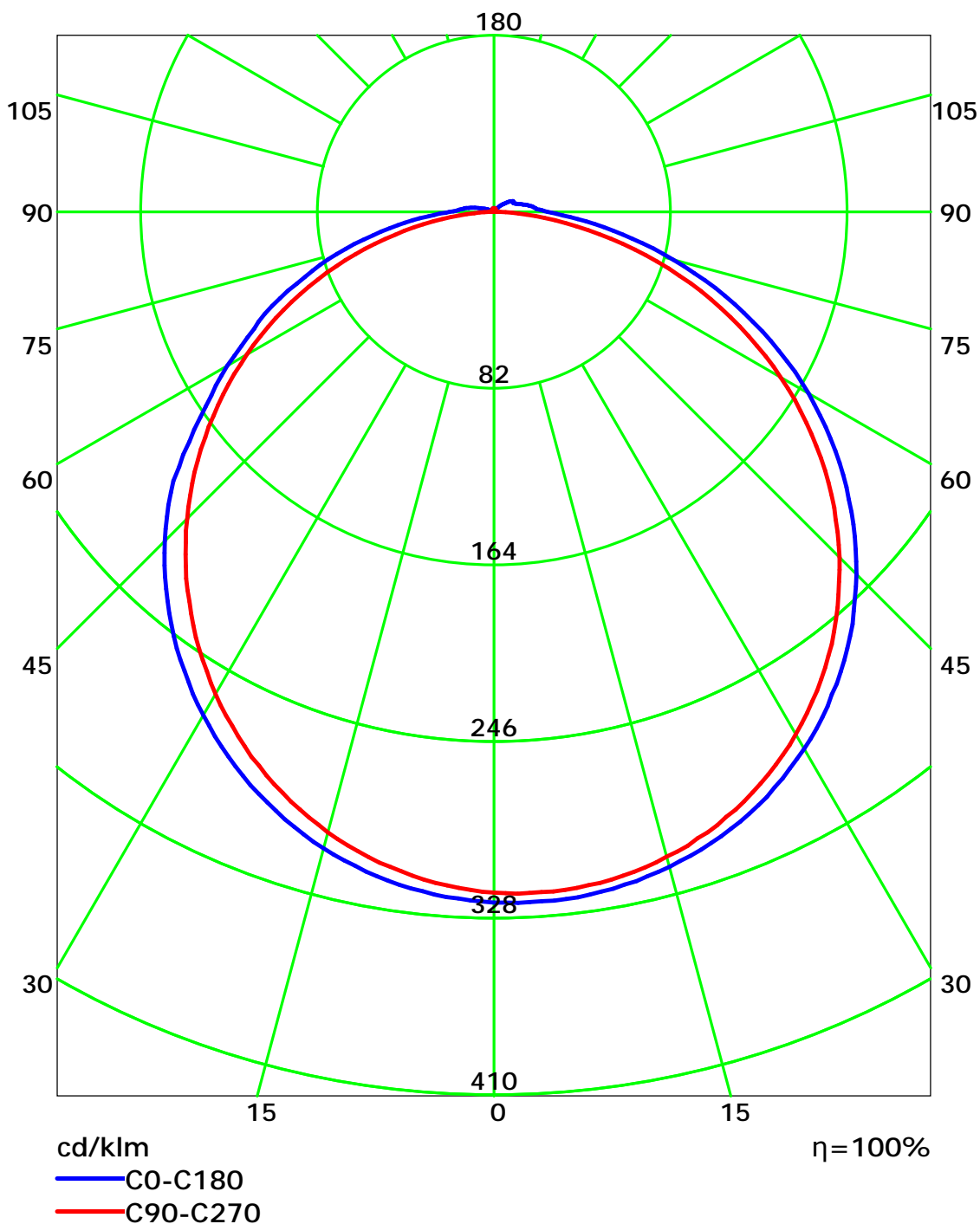
Luminous Intensity Distribution Curve



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

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: acolyteled
 Test Type: TYPE C
 Temperature: 25
 Operator: Aaron

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



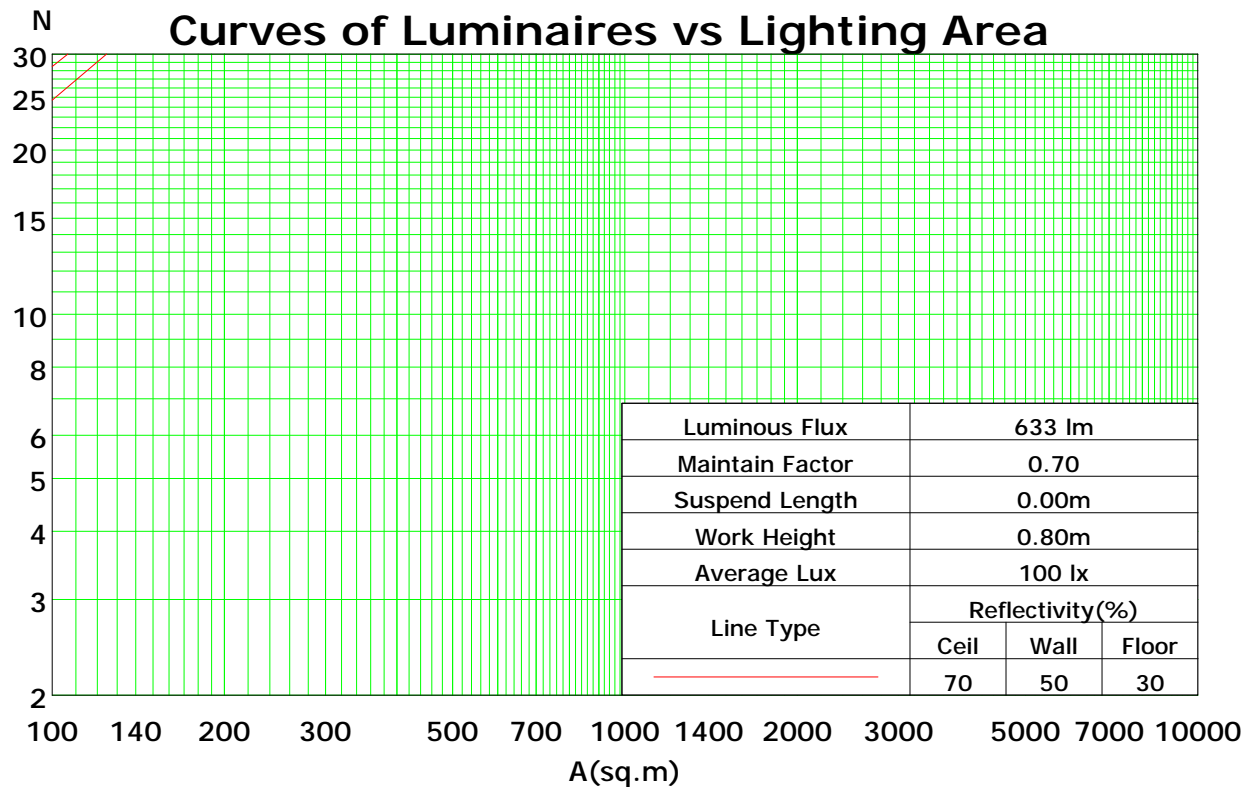
Coefficients Of Utilization - Zonal Cavity Method

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	107	102	98	93	104	100	95	92	95	91	88	91	88	85	87	84	82	80
2	97	89	81	75	94	86	80	74	82	77	72	79	74	70	75	72	68	66
3	88	77	69	62	86	76	68	61	72	66	60	69	63	59	66	61	57	55
4	81	68	59	52	78	67	58	52	64	57	51	61	55	50	59	53	49	47
5	74	61	52	45	72	60	51	44	57	50	44	55	48	43	53	47	42	40
6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	50	41	34	61	49	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	31	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	25
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

Spacing Criteria (0-180): 1.29

Spacing Criteria (90-270): 1.27

Spacing Criteria (Diagonal): 1.40



C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

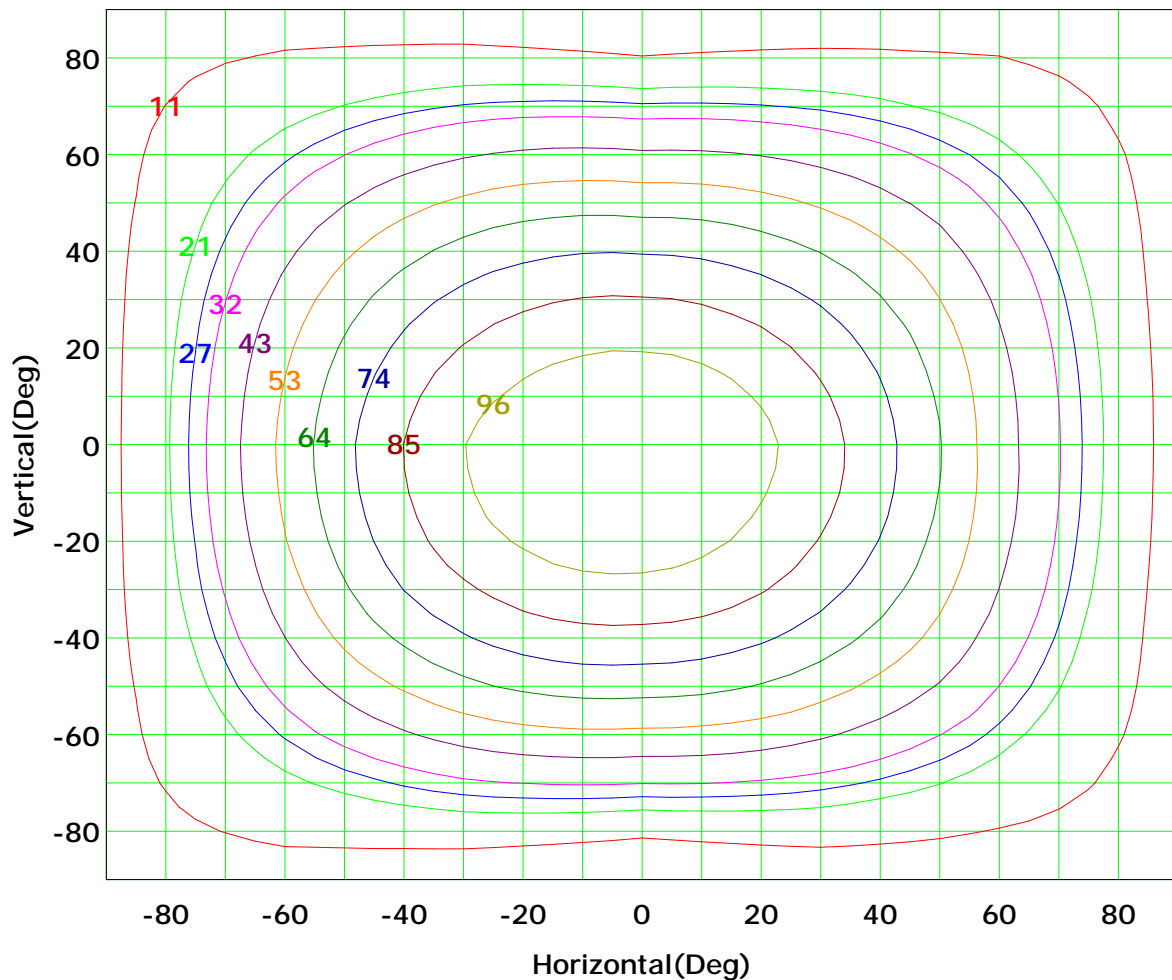
Distance: 9.028 m

Humidity: 60%

Inspector:



Isocandela (rectangle)



I_{max} (100%): 106 cd

(10%):	11 cd	(20%):	21 cd
(25%):	27 cd	(30%):	32 cd
(40%):	43 cd	(50%):	53 cd
(60%):	64 cd	(70%):	74 cd
(80%):	85 cd	(90%):	96 cd

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

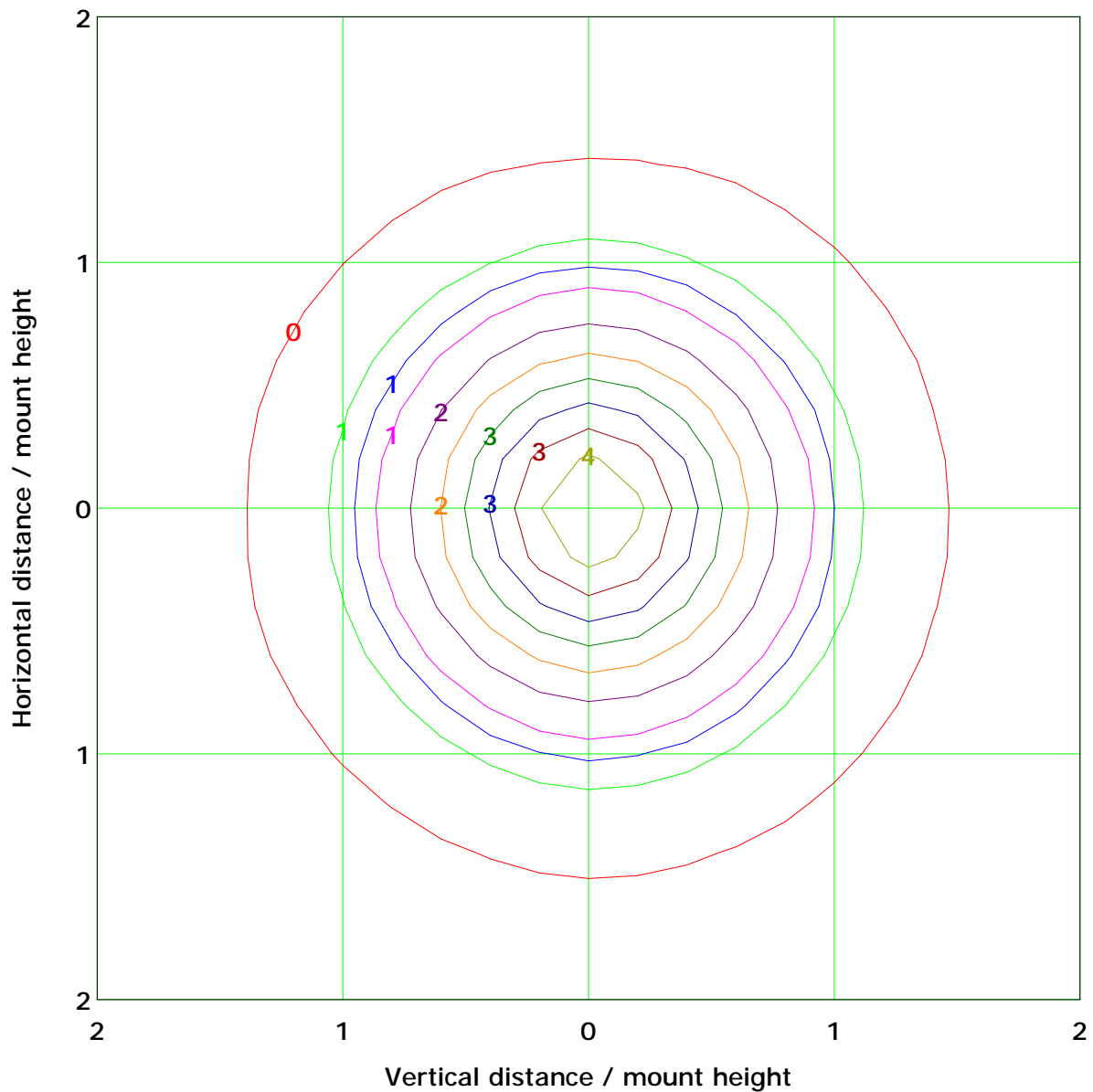
Distance: 9.028 m

Humidity: 60%

Inspector:



IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 4.2 lx

(10%): 0.4 lx	(20%): 0.8 lx
(25%): 1.1 lx	(30%): 1.3 lx
(40%): 1.7 lx	(50%): 2.1 lx
(60%): 2.5 lx	(70%): 3.0 lx
(80%): 3.4 lx	(90%): 3.8 lx

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

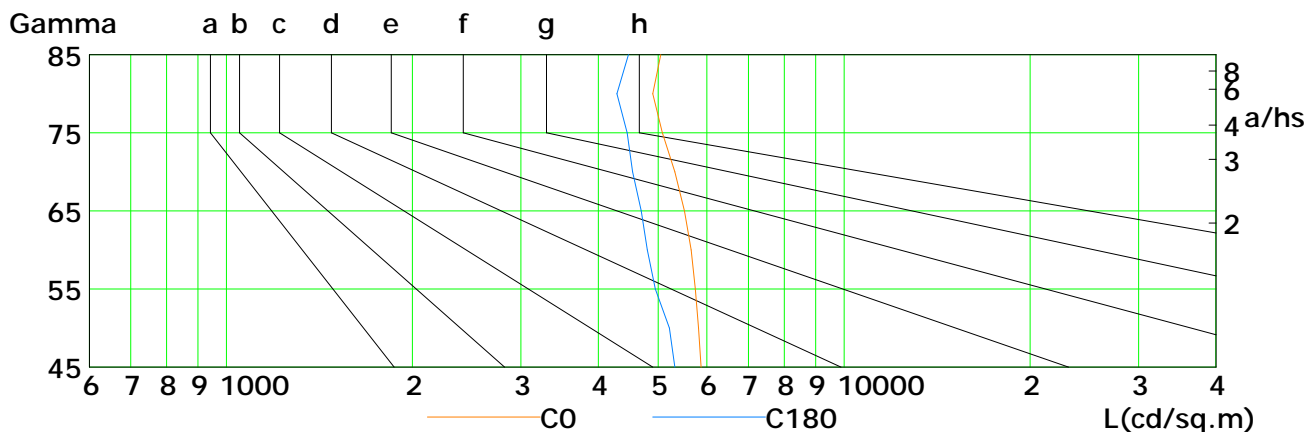
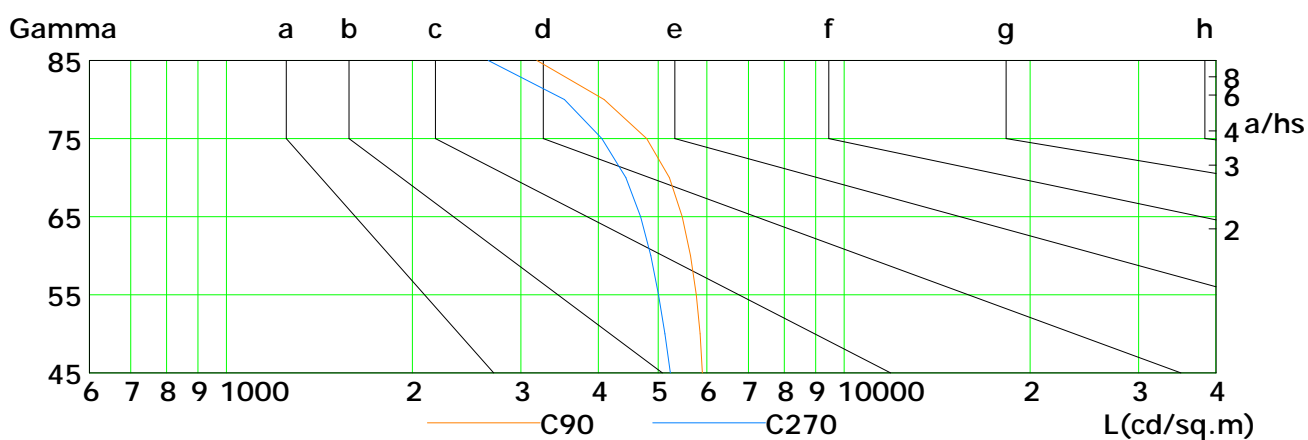
Humidity: 60%

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



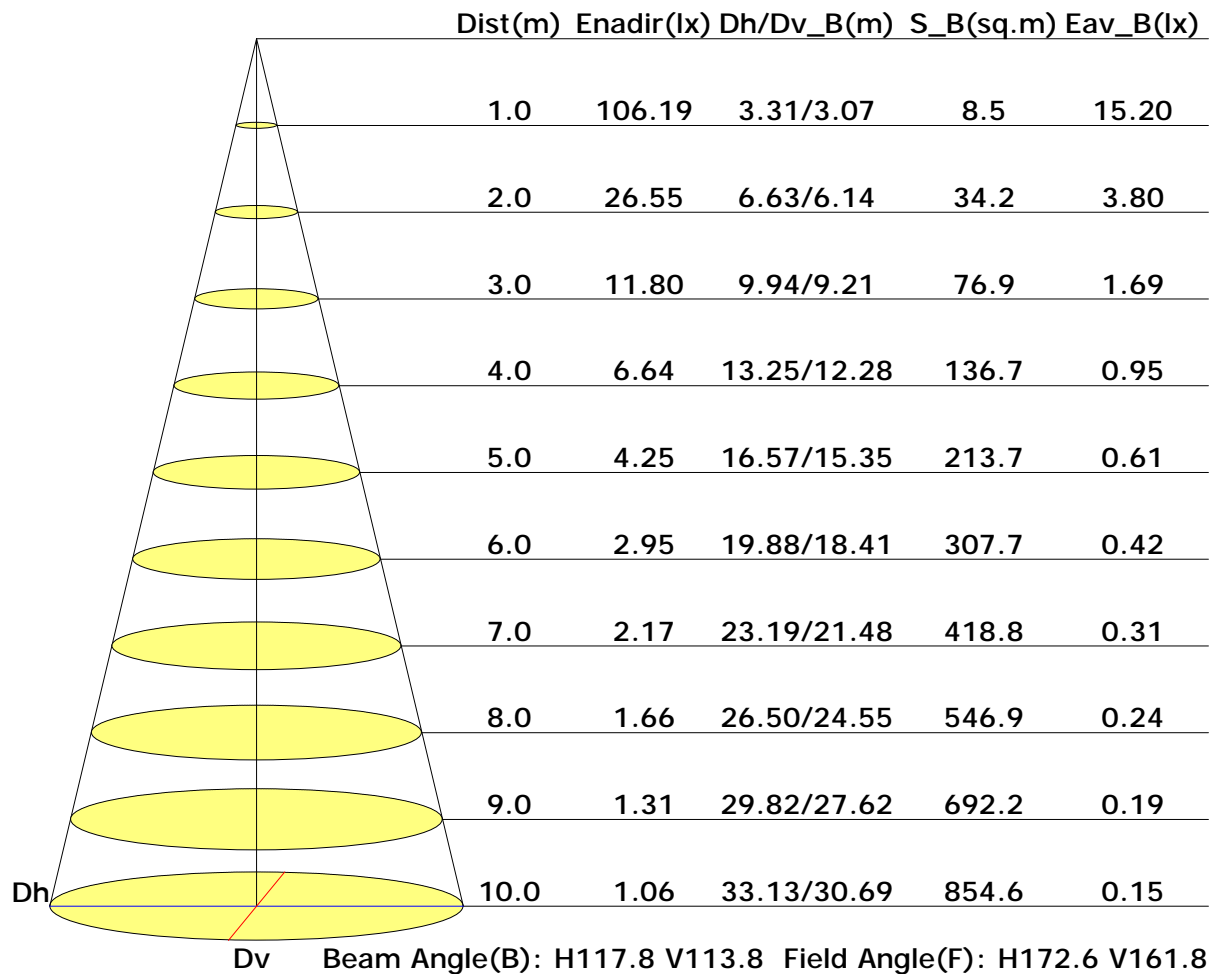
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5867	5816	5748	5658	5517	5324	5078	4902	5053
C90	5897	5846	5765	5642	5471	5218	4795	4091	3183
C180	5326	5215	4946	4801	4695	4549	4455	4289	4476
C270	5234	5130	5010	4867	4683	4434	4057	3528	2653

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

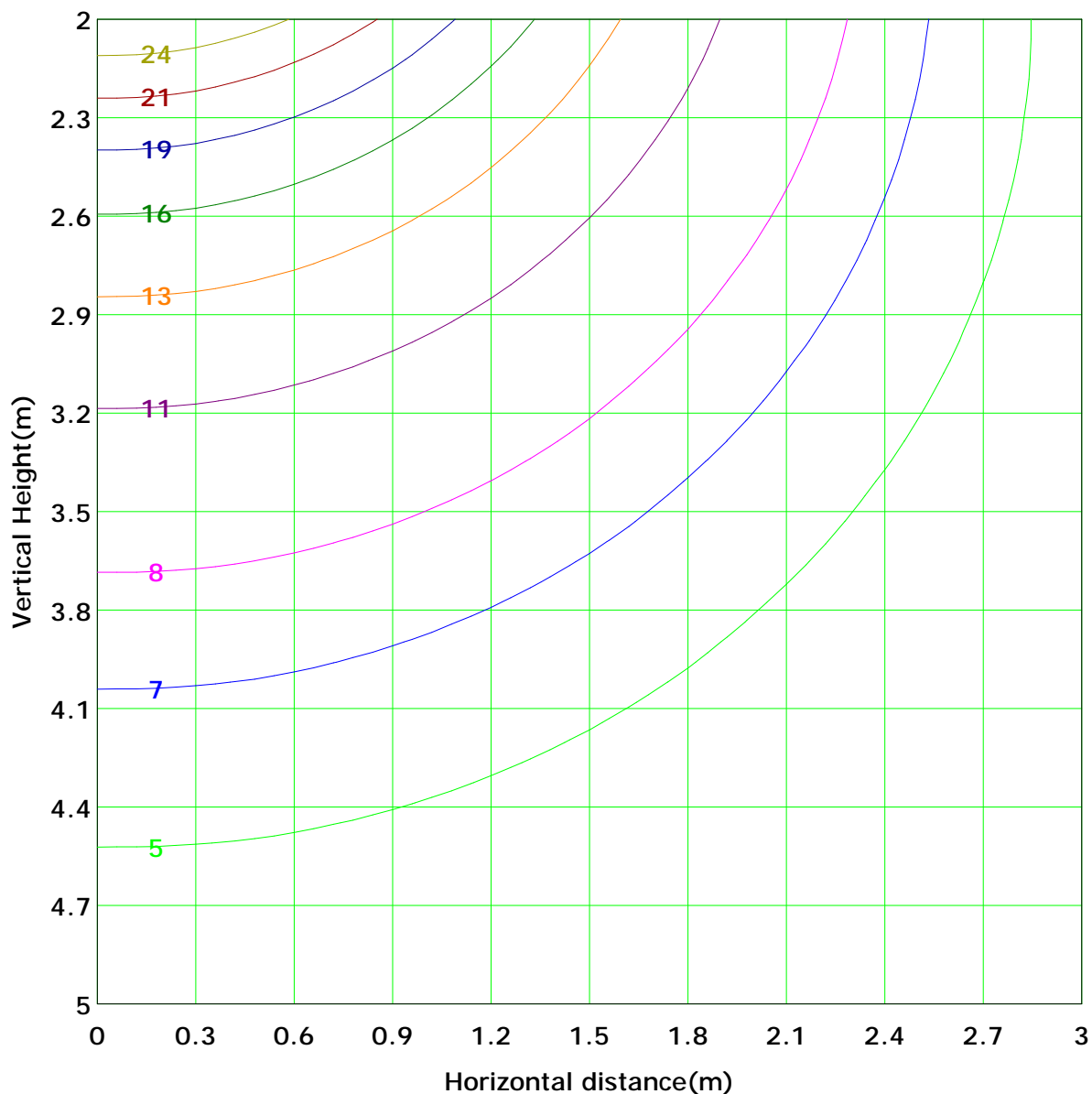
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 26.5 lx
(10%): 2.7 lx	(20%): 5.3 lx	
(25%): 6.6 lx	(30%): 8.0 lx	
(40%): 10.6 lx	(50%): 13.3 lx	
(60%): 15.9 lx	(70%): 18.6 lx	
(80%): 21.2 lx	(90%): 23.9 lx	

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

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



A C O L Y T E

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Area Flux Table

Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.5	0.3
	-80	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.5	2.5	2.3
	-70	0.0	0.1	0.2	0.4	0.6	0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.7	0.4	0.1	0.0	0.5	6.2	5.9
	-60	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.5	1.5	1.5	1.5	1.4	1.1	0.7	0.4	0.1	0.0	0.5	11.3	11.0
	-50	0.0	0.1	0.3	0.5	0.8	1.1	1.3	1.6	2.0	2.1	2.1	2.1	2.0	1.7	1.2	0.9	0.6	0.0	0.5	17.3	17.1
	-40	0.0	0.1	0.4	0.7	1.0	1.4	1.7	2.0	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.7	0.0	0.5	23.3	23.1
	-30	0.0	0.2	0.4	0.8	1.2	1.6	2.0	2.2	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	28.6	28.4
	-20	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	32.5	32.3
	-10	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	34.3	34.3
	0	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	34.6	34.7
	10	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	33.5	33.2
	20	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	30.1	29.8
	30	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	25.1	24.8
	40	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	19.0	18.7
	50	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	12.7	12.4
	60	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	7.0	6.8
	70	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	2.9	2.7
	80	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	0.6	0.4
	90	0.0	0.2	0.5	0.9	1.3	1.8	2.2	2.3	2.4	2.6	2.6	2.6	2.5	2.1	1.5	1.1	0.6	0.0	0.5	323	318
	Flux(E)	0.3	2.3	5.9	11.0	17.1	23.1	28.4	32.3	34.3	34.7	33.2	29.8	24.8	18.7	12.4	6.8	2.7	0.4			

C Plane (°):0.0-360.0: 30.0

Test Lab: acolyteled

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

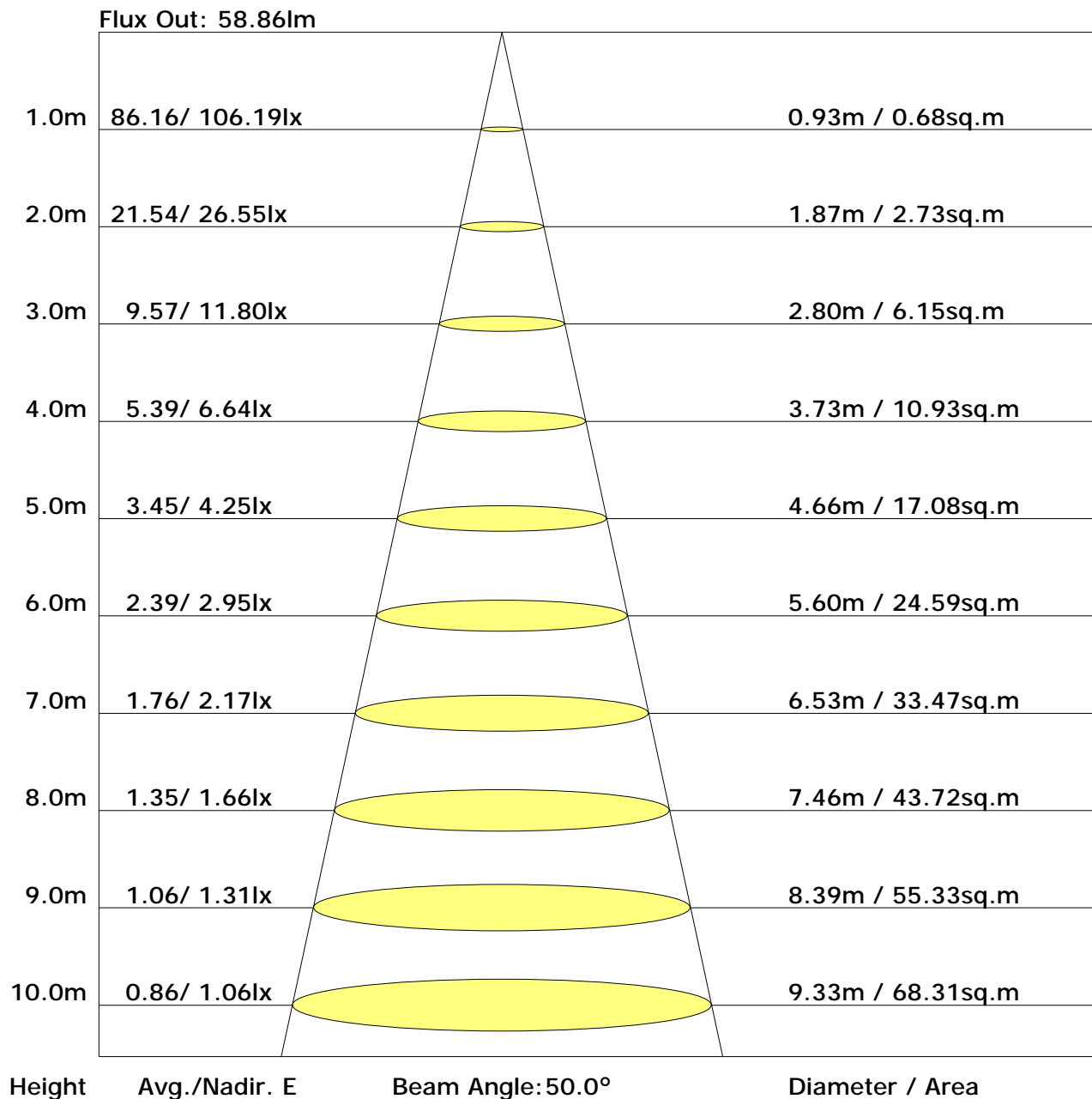
Distance: 9.028 m

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	22.3	23.9	22.7	24.3	24.7	21.8	23.5	22.2	23.8	24.2
3H	24.4	25.9	24.8	26.2	26.7	23.6	25.1	24.1	25.5	25.9
4H	25.3	26.6	25.7	27.0	27.5	24.3	25.7	24.7	26.1	26.5
6H	26.0	27.3	26.5	27.7	28.2	24.7	26.0	25.2	26.4	26.9
8H	26.3	27.6	26.8	28.0	28.5	24.8	26.1	25.3	26.5	27.0
12H	26.7	27.8	27.1	28.3	28.8	24.9	26.1	25.4	26.5	27.0
X=4H Y=2H	22.9	24.3	23.4	24.7	25.1	22.6	24.0	23.0	24.3	24.8
3H	25.2	26.4	25.7	26.8	27.3	24.6	25.8	25.0	26.2	26.7
4H	26.2	27.3	26.7	27.7	28.2	25.4	26.5	25.9	26.9	27.4
6H	27.1	28.1	27.6	28.5	29.1	26.0	26.9	26.5	27.4	27.9
8H	27.5	28.4	28.0	28.9	29.4	26.1	27.0	26.6	27.5	28.0
12H	27.9	28.7	28.5	29.3	29.8	26.2	27.0	26.8	27.6	28.1
X=8H Y=4H	26.5	27.4	27.0	27.9	28.4	25.8	26.7	26.3	27.2	27.7
6H	27.6	28.3	28.1	28.8	29.4	26.5	27.3	27.1	27.8	28.4
8H	28.1	28.8	28.6	29.3	29.8	26.8	27.5	27.4	28.0	28.6
12H	28.7	29.2	29.2	29.8	30.4	27.0	27.6	27.6	28.1	28.7
X=12H Y=4H	26.6	27.3	27.1	27.9	28.4	25.9	26.7	26.4	27.2	27.7
6H	27.7	28.3	28.2	28.8	29.4	26.7	27.4	27.2	27.9	28.4
8H	28.2	28.8	28.8	29.4	30.0	27.0	27.6	27.6	28.1	28.7

Calculate in accordance with CIE 190:2010

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

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	0.54	0.64	0.72	0.77	0.84	0.90	0.93	0.98	1.01
	0.30		0.46	0.56	0.64	0.70	0.78	0.84	0.88	0.94	0.97
	0.20		0.40	0.50	0.58	0.64	0.72	0.79	0.83	0.90	0.94
0.50	0.50	0.20	0.52	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.96
	0.30		0.45	0.55	0.62	0.68	0.75	0.81	0.85	0.90	0.93
	0.20		0.40	0.50	0.57	0.63	0.71	0.76	0.81	0.87	0.90
0.30	0.50	0.20	0.51	0.60	0.66	0.71	0.78	0.82	0.85	0.89	0.92
	0.30		0.44	0.54	0.61	0.66	0.73	0.78	0.82	0.86	0.90
	0.20		0.39	0.49	0.56	0.61	0.69	0.74	0.78	0.84	0.87
0.00	0.00	0.00	0.37	0.46	0.53	0.58	0.65	0.70	0.74	0.79	0.82
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	1.02	0.85	0.73	0.64	0.51	0.43	0.37	0.29	0.24
	0.30		0.85	0.73	0.64	0.57	0.47	0.39	0.34	0.27	0.23
	0.20		0.73	0.64	0.56	0.51	0.42	0.36	0.32	0.26	0.22
0.50	0.50	0.20	0.98	0.82	0.70	0.61	0.49	0.44	0.35	0.27	0.23
	0.30		0.83	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22
	0.20		0.72	0.63	0.55	0.50	0.41	0.35	0.31	0.25	0.21
0.30	0.50	0.20	0.95	0.78	0.67	0.58	0.47	0.39	0.34	0.26	0.22
	0.30		0.81	0.69	0.60	0.53	0.43	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
0.00	0.00	0.00	0.61	0.52	0.45	0.40	0.33	0.28	0.24	0.19	0.16
<p>Rating: 14W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											



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	0.19	0.20	0.21	0.22	0.23	0.23	0.23	0.24	0.24
	0.30		0.12	0.13	0.15	0.16	0.17	0.19	0.19	0.21	0.21
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19
0.50	0.50	0.20	0.18	0.19	0.20	0.21	0.22	0.22	0.22	0.23	0.23
	0.30		0.12	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.22
	0.30		0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<p>Rating: 14W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											