ACOLYTE
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Report No.: **Test Time: 2021/2/18 17:01**

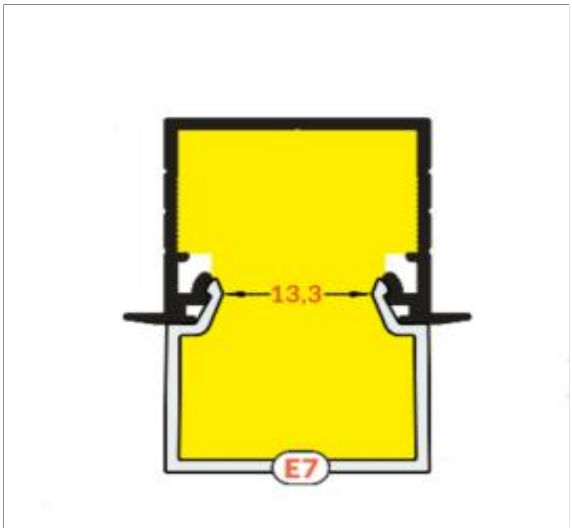
Luminaire Property

Luminaire Manufacturer:
Luminaire Category: CHANNEL
Luminaire Description: AR20
Lamp Catalog: RIBBONLYTE
Lamp Description: RB90SWS2203.030
Number of Lamps: 1 ROWS
Luminous Length (mm): 500
Luminous Width (mm): 29.7
Luminous Height (mm): 36
Voltage: 24.0 V
Current: 0.224 A
Power: 5.39 W
Power Factor: 1.000

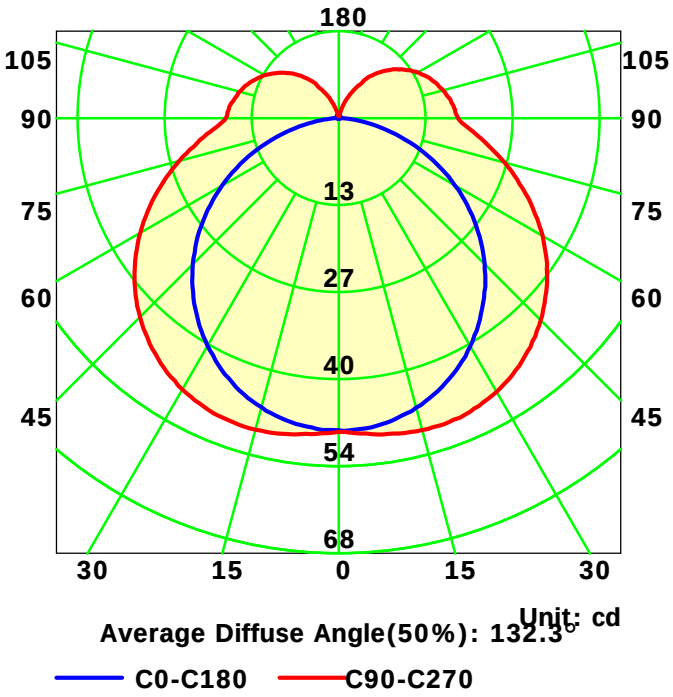
Photometric Results

CIE Class: Semi-Direct
Total Rated Lamp Lumens: 232.1 lm
Measurement Flux: 232.1 lm
Efficiency: 100%
Downward Ratio: 81%
Upward Ratio: 19%
Horizontal Diffuse Angle(10%,50%): H159.8,H111.4
Vertical Diffuse Angle(10%,50%): V301.6,V153.2
Luminaire Efficacy Rating (LER): 43
Central Intensity: 48.95 cd
Max. Intensity: 50.73 cd
Pos of Max. Intensity: H90 V19

Picture Of Luminaire

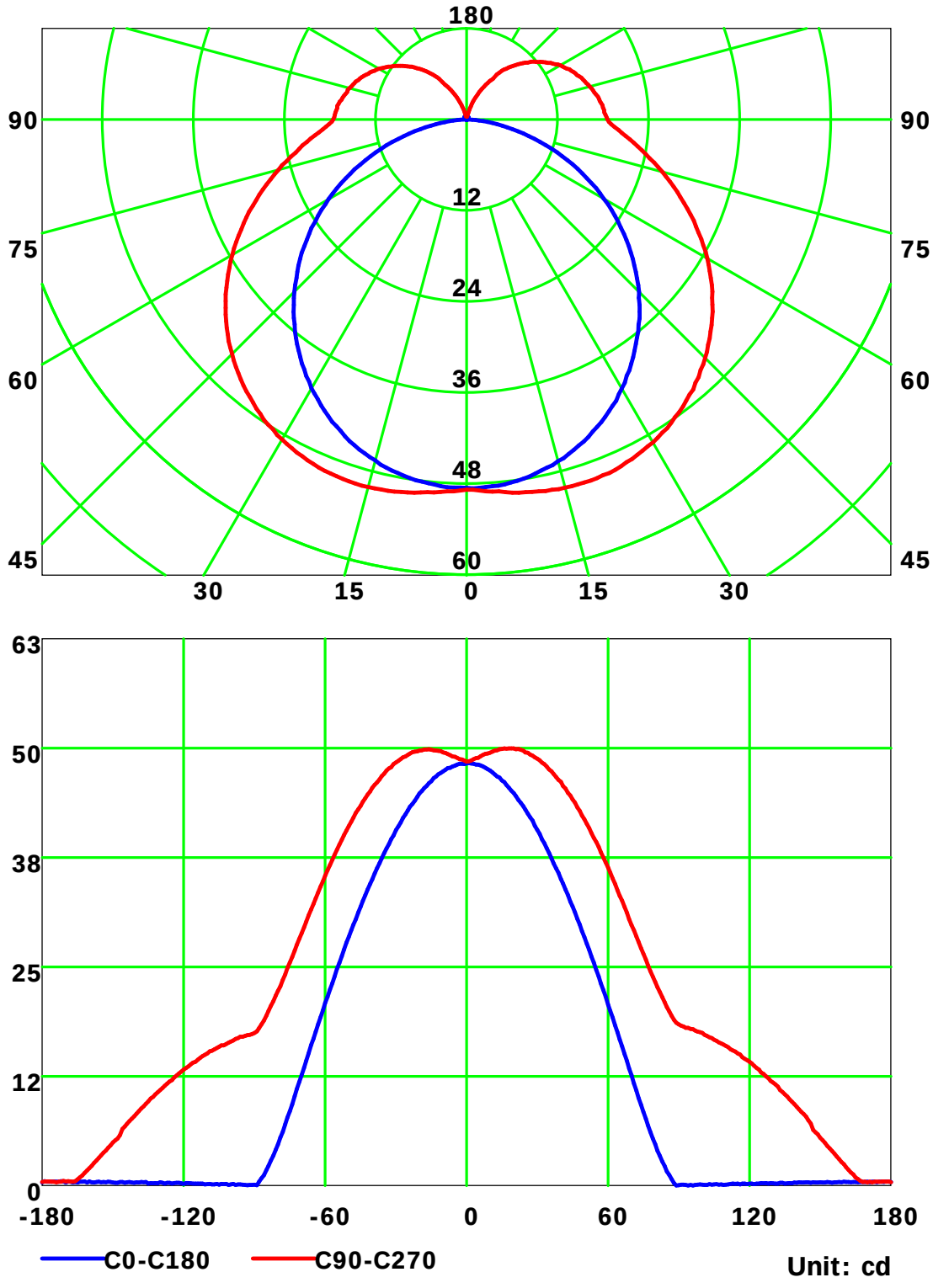


Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab:
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 9.028 m
Temperature: 25
Humidity: 60%
Operator: Nick
Inspector:

Luminous Intensity Distribution Curve



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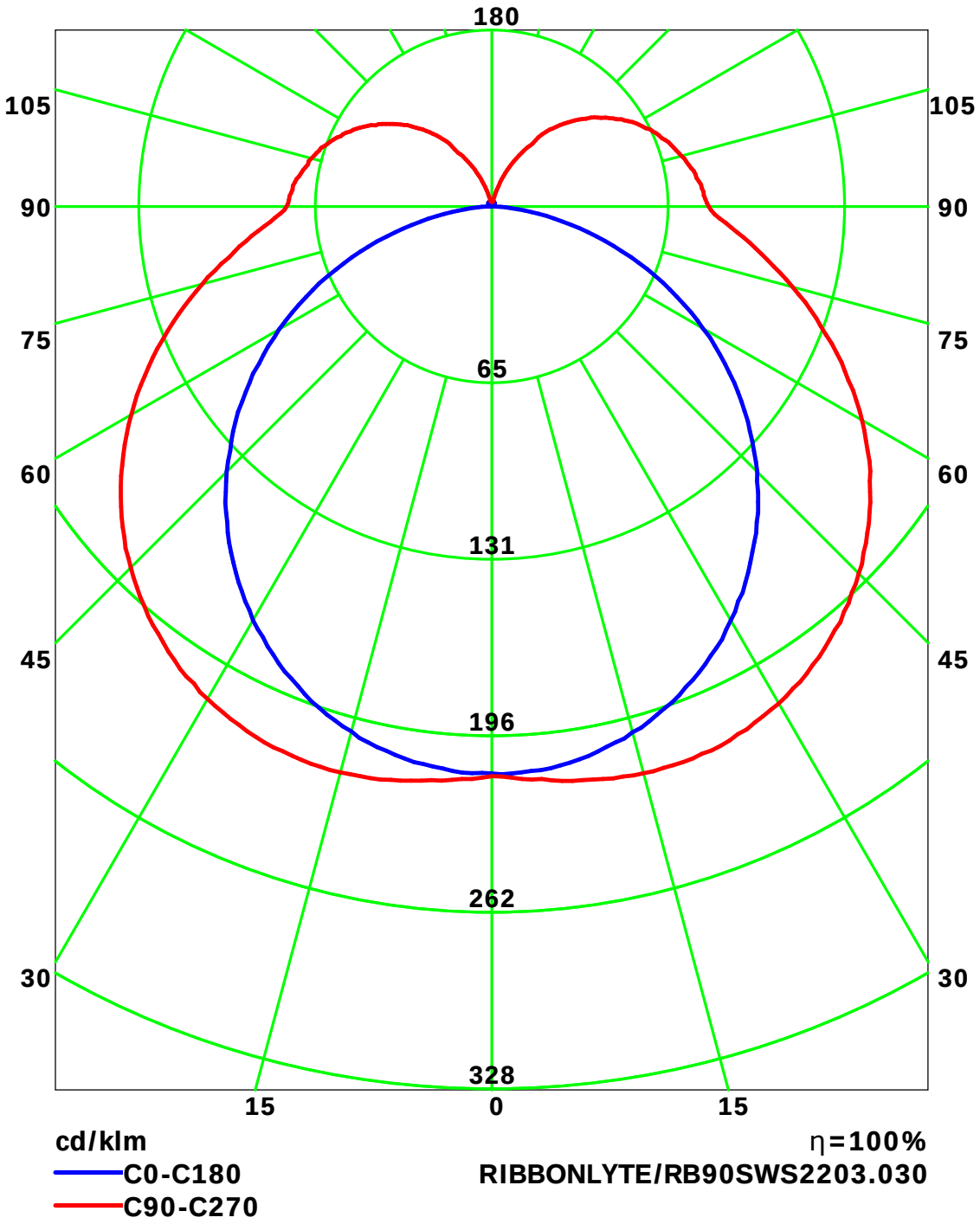
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
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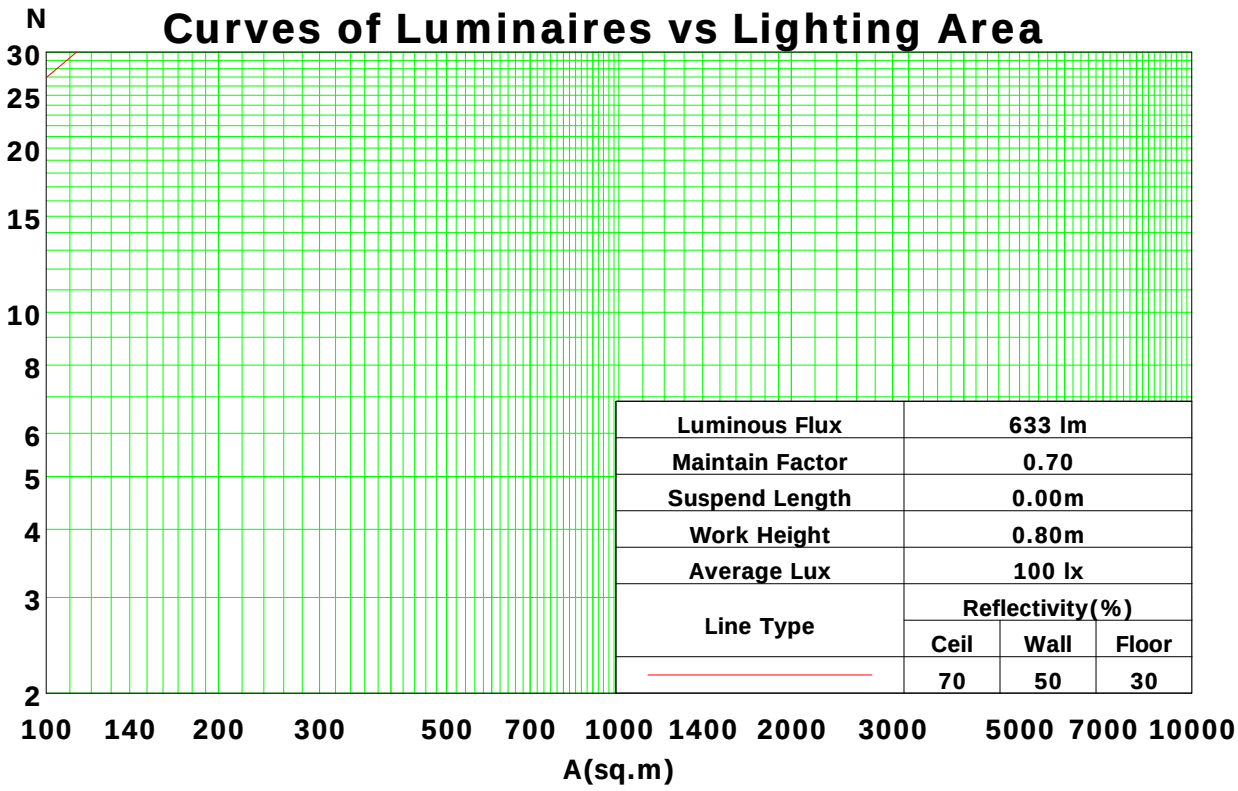
Inspector:

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	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81
1	102	96	91	87	97	92	88	84	85	81	78	77	75	72	71	69	67	63
2	92	83	75	69	87	79	72	66	73	67	62	66	62	58	61	57	54	51
3	83	72	63	56	79	69	61	54	63	56	51	58	52	48	53	48	45	42
4	76	63	54	47	72	60	52	45	56	48	43	51	45	40	47	42	38	35
5	69	56	47	40	66	54	45	39	49	42	36	45	39	34	42	37	32	30
6	64	50	41	34	61	48	40	33	44	37	32	41	35	30	38	32	28	26
7	59	45	36	30	56	43	35	29	40	33	28	37	31	26	34	29	25	22
8	55	41	32	26	52	39	31	26	37	29	24	34	28	23	31	26	22	20
9	51	37	29	23	49	36	28	23	34	27	22	31	25	21	29	24	20	18
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16

Spacing Criteria (0-180): 1.25
Spacing Criteria (90-270): 1.49
Spacing Criteria (Diagonal): 1.52

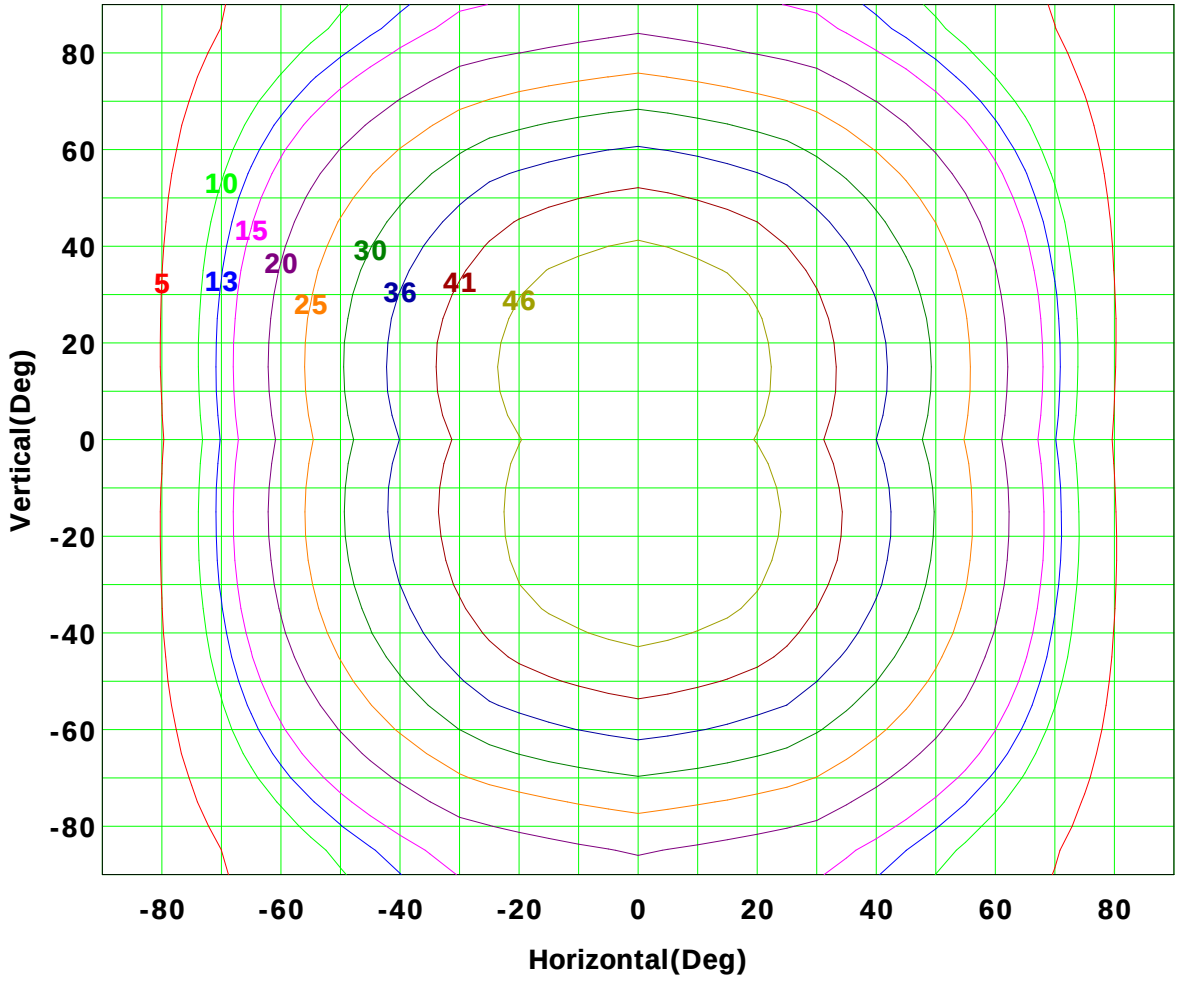
Curves of Luminaires vs Lighting Area



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

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

Isocandela (rectangle)



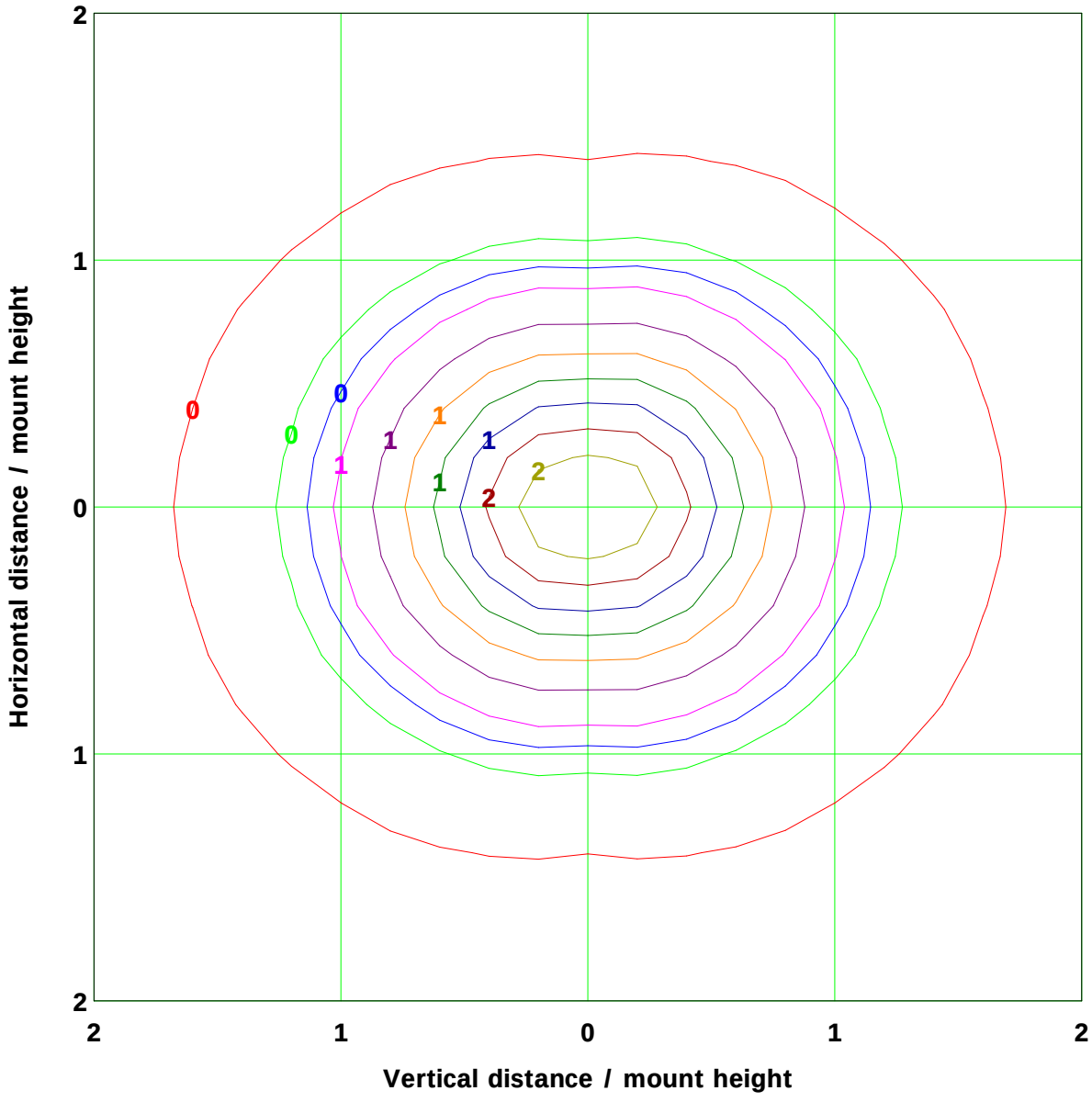
Imax (100%): 51 cd

(10%):	5 cd	(20%):	10 cd
(25%):	13 cd	(30%):	15 cd
(40%):	20 cd	(50%):	25 cd
(60%):	30 cd	(70%):	36 cd
(80%):	41 cd	(90%):	46 cd

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

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%): 2.0 lx

(10%): 0.2 lx	(20%): 0.4 lx
(25%): 0.5 lx	(30%): 0.6 lx
(40%): 0.8 lx	(50%): 1.0 lx
(60%): 1.2 lx	(70%): 1.4 lx
(80%): 1.6 lx	(90%): 1.8 lx

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
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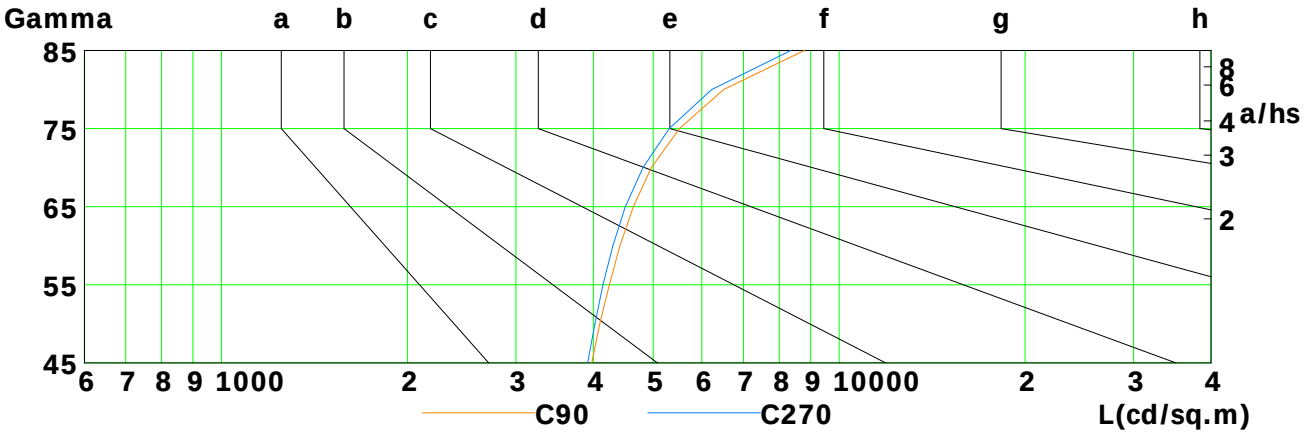
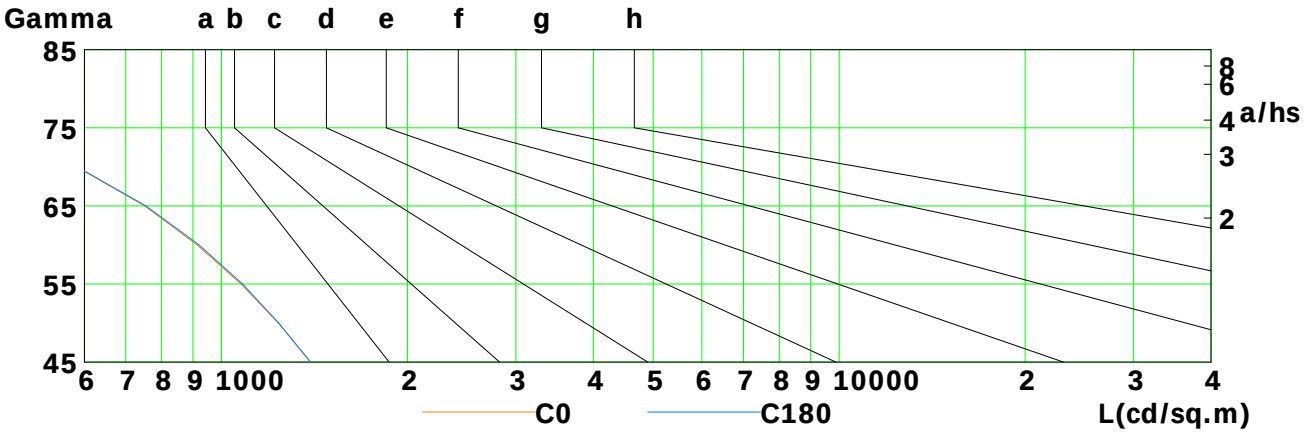
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	1395	1237	1076	913	752	583	405	237	87
C90	3980	4101	4247	4420	4643	4967	5519	6507	8782
C180	1394	1238	1082	920	755	585	407	236	95
C270	3915	4025	4149	4304	4511	4816	5309	6223	8358

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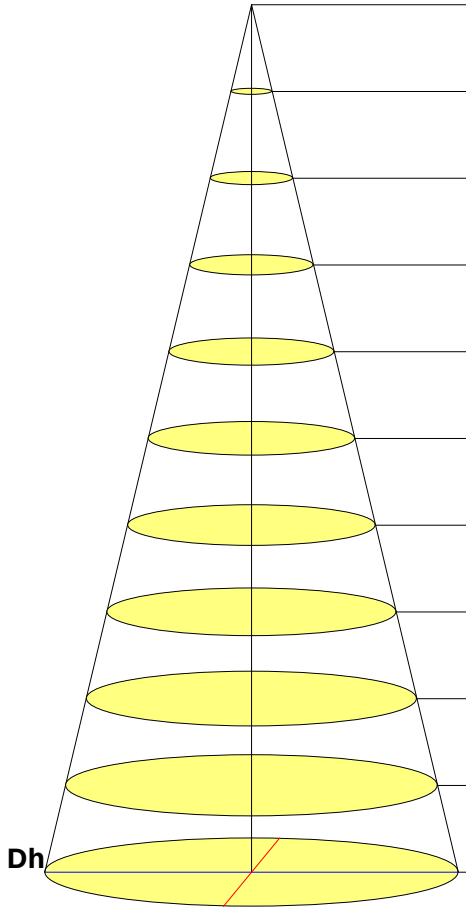
Test Type: TYPE C
Temperature: 25
Operator: Nick

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

Illuminance at a Distance



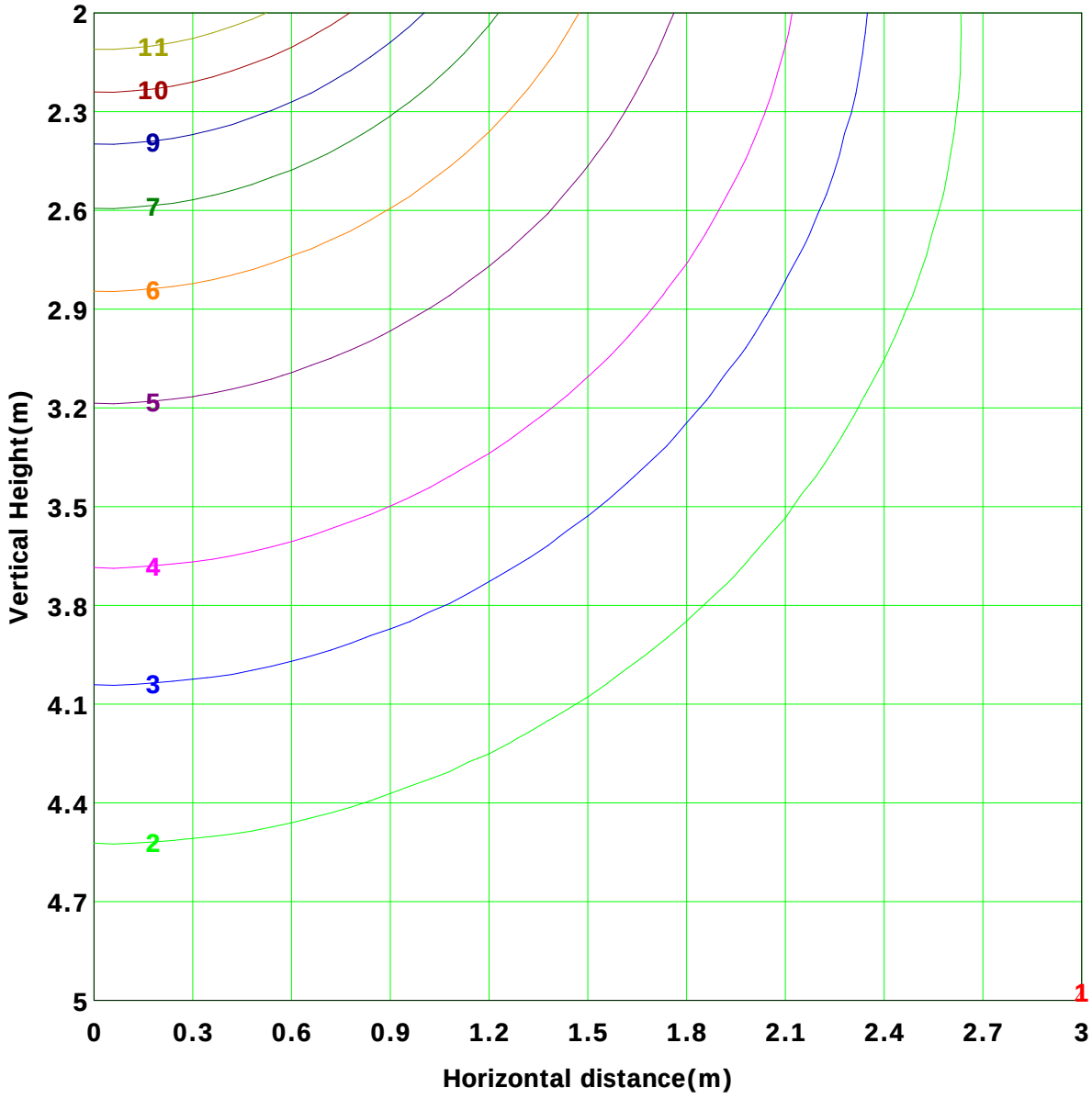
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	48.95	2.93/8.41	25.1	3.10
2.0	12.24	5.87/16.82	100.4	0.77
3.0	5.44	8.80/25.23	226.0	0.34
4.0	3.06	11.74/33.63	401.8	0.19
5.0	1.96	14.67/42.04	627.8	0.12
6.0	1.36	17.61/50.45	904.0	0.09
7.0	1.00	20.54/58.86	1230.5	0.06
8.0	0.76	23.47/67.27	1607.2	0.05
9.0	0.60	26.41/75.68	2034.1	0.04
10.0	0.49	29.34/84.08	2511.2	0.03

Beam Angle(B): H111.4 V153.2 Field Angle(F): H159.8 V301.6

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

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: 12.2 lx

(10%): 1.2 lx	(20%): 2.4 lx
(25%): 3.1 lx	(30%): 3.7 lx
(40%): 4.9 lx	(50%): 6.1 lx
(60%): 7.3 lx	(70%): 8.6 lx
(80%): 9.8 lx	(90%): 11.0 lx

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

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

Area Flux Table

Unit: lm

Horizontal plane	Vertical plane																									Flux(E)
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
-80	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.0
-70	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.1	3.2
-60	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.2	6.4
-50	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.1	0.3	10.1
-40	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.6	0.5	0.4	0.1	0.4	14.1
-30	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	0.8	0.6	0.5	0.1	0.5	17.6
-20	0.5	0.7	0.9	1.0	1.2	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.2	0.9	0.7	0.6	0.1	0.6	20.2
-10	0.6	0.8	1.0	1.2	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.3	1.0	0.8	0.6	0.1	0.6	21.7
0	0.6	0.8	1.0	1.2	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.3	1.0	0.8	0.6	0.1	0.6	21.7
10	0.5	0.7	0.9	1.0	1.2	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.2	0.9	0.7	0.6	0.1	0.6	20.2
20	0.5	0.6	0.8	0.9	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.0	0.8	0.6	0.5	0.1	0.5	17.6
30	0.4	0.5	0.6	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.6	0.5	0.4	0.1	0.4	14.0
40	0.3	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.1	0.3	10.1
50	0.2	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.2	6.3
60	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.1	3.2
70	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.9
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	5.0	6.6	8.4	10.1	11.5	12.5	13.1	13.3	13.1	13.1	13.4	13.2	12.6	11.7	10.3	8.6	6.8	5.3		Flux(T)	
Flux(E)	5.0	6.6	8.4	10.1	11.5	12.5	13.1	13.3	13.1	13.1	13.3	13.2	12.6	11.6	10.3	8.6	6.8	5.2		188	Flux(E)

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
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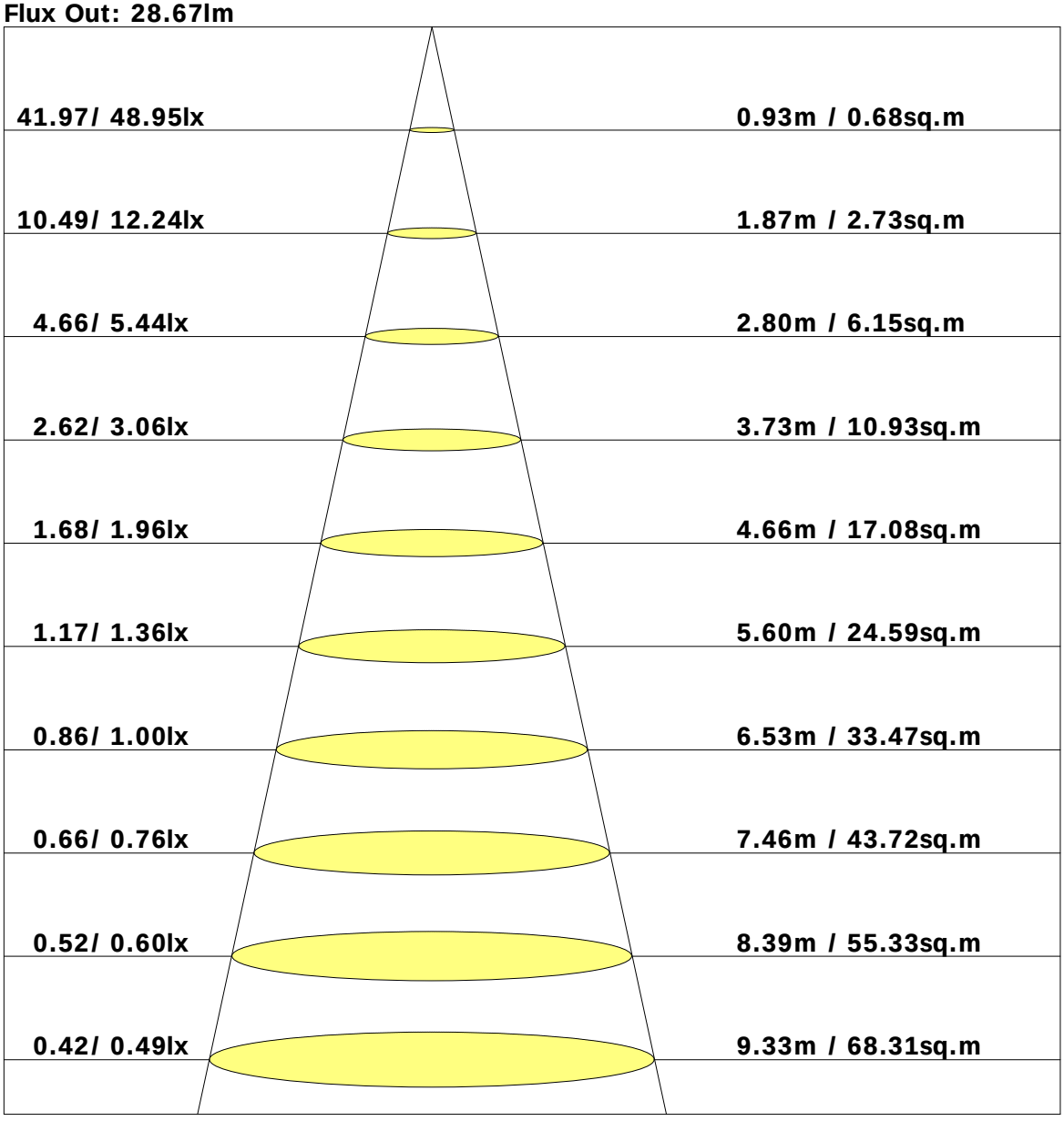
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

The Average Illuminance Effective Figure

Flux Out: 28.67lm



Height	Avg./Nadir. E	Beam Angle:50.0°	Diameter / Area
1.0m	41.97/ 48.95lx		0.93m / 0.68sq.m
2.0m	10.49/ 12.24lx		1.87m / 2.73sq.m
3.0m	4.66/ 5.44lx		2.80m / 6.15sq.m
4.0m	2.62/ 3.06lx		3.73m / 10.93sq.m
5.0m	1.68/ 1.96lx		4.66m / 17.08sq.m
6.0m	1.17/ 1.36lx		5.60m / 24.59sq.m
7.0m	0.86/ 1.00lx		6.53m / 33.47sq.m
8.0m	0.66/ 0.76lx		7.46m / 43.72sq.m
9.0m	0.52/ 0.60lx		8.39m / 55.33sq.m
10.0m	0.42/ 0.49lx		9.33m / 68.31sq.m

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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	17.7	19.0	18.3	19.7	20.4	18.1	19.5	18.7	20.1	20.8
3H	19.4	20.6	20.0	21.3	22.1	20.2	21.4	20.8	22.1	22.8
4H	20.0	21.2	20.6	21.8	22.6	21.1	22.3	21.8	23.0	23.7
6H	20.4	21.5	21.0	22.1	22.9	22.0	23.1	22.6	23.7	24.5
8H	20.5	21.5	21.2	22.2	23.0	22.4	23.4	23.0	24.1	24.9
12H	20.5	21.5	21.2	22.2	23.0	22.7	23.7	23.4	24.4	25.3
X=4H Y=2H	18.3	19.5	19.0	20.2	21.0	18.7	19.8	19.3	20.5	21.3
3H	20.3	21.3	20.9	22.0	22.8	21.0	22.0	21.7	22.7	23.5
4H	21.0	21.9	21.7	22.6	23.5	22.1	23.0	22.8	23.7	24.6
6H	21.5	22.3	22.2	23.1	23.9	23.1	23.9	23.8	24.7	25.5
8H	21.7	22.5	22.4	23.2	24.0	23.6	24.4	24.3	25.1	25.9
12H	21.8	22.5	22.5	23.2	24.1	24.1	24.8	24.8	25.5	26.4
X=8H Y=4H	21.4	22.2	22.1	22.9	23.8	22.4	23.2	23.1	23.9	24.8
6H	22.1	22.8	22.9	23.6	24.4	23.6	24.3	24.4	25.0	25.9
8H	22.4	23.0	23.1	23.8	24.6	24.2	24.8	25.0	25.6	26.5
12H	22.6	23.1	23.3	23.9	24.8	24.9	25.4	25.6	26.1	27.1
X=12H Y=4H	21.5	22.2	22.2	23.0	23.8	22.4	23.1	23.2	23.9	24.7
6H	22.3	22.9	23.1	23.6	24.5	23.7	24.3	24.5	25.0	25.9
8H	22.6	23.2	23.4	23.9	24.8	24.4	24.9	25.1	25.7	26.6

Calculate in accordance with CIE 190:2010

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Operator: Nick

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 = 1.50								
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	0.50	0.58	0.65	0.70	0.77	0.82	0.86	0.91	0.94
	0.30		0.42	0.50	0.57	0.62	0.70	0.76	0.80	0.86	0.90
	0.20		0.36	0.44	0.51	0.57	0.65	0.71	0.75	0.81	0.86
0.50	0.50	0.20	0.46	0.54	0.60	0.65	0.71	0.76	0.79	0.83	0.86
	0.30		0.40	0.47	0.54	0.58	0.66	0.70	0.74	0.79	0.83
	0.20		0.35	0.42	0.48	0.53	0.61	0.66	0.70	0.76	0.80
0.30	0.50	0.20	0.43	0.50	0.56	0.60	0.66	0.70	0.72	0.76	0.79
	0.30		0.37	0.44	0.50	0.55	0.61	0.65	0.69	0.73	0.76
	0.20		0.33	0.39	0.46	0.50	0.57	0.62	0.65	0.70	0.74
0.00	0.00	0.00	0.29	0.35	0.41	0.45	0.50	0.55	0.58	0.62	0.65

Rating:5W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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

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

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50								
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	1.00	0.86	0.74	0.66	0.54	0.45	0.39	0.31	0.26
	0.30		0.83	0.74	0.65	0.58	0.48	0.42	0.37	0.30	0.25
	0.20		0.71	0.64	0.57	0.52	0.44	0.38	0.34	0.28	0.24
0.50	0.50	0.20	0.92	0.80	0.68	0.61	0.50	0.44	0.37	0.29	0.24
	0.30		0.78	0.69	0.60	0.54	0.45	0.39	0.34	0.28	0.23
	0.20		0.68	0.61	0.54	0.49	0.42	0.36	0.32	0.26	0.22
0.30	0.50	0.20	0.86	0.74	0.63	0.56	0.46	0.39	0.34	0.27	0.22
	0.30		0.73	0.65	0.57	0.51	0.42	0.36	0.32	0.26	0.22
	0.20		0.64	0.58	0.51	0.46	0.39	0.34	0.30	0.25	0.21
0.00	0.00	0.00	0.52	0.47	0.41	0.37	0.31	0.27	0.24	0.19	0.16

Rating:5W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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

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

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50								
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	0.35	0.36	0.37	0.37	0.38	0.39	0.39	0.40	0.40
	0.30		0.28	0.29	0.30	0.31	0.33	0.34	0.35	0.36	0.37
	0.20		0.23	0.24	0.25	0.27	0.28	0.30	0.31	0.33	0.34
0.50	0.50	0.20	0.33	0.35	0.35	0.36	0.37	0.37	0.38	0.38	0.38
	0.30		0.27	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.35
	0.20		0.23	0.24	0.25	0.26	0.28	0.29	0.30	0.32	0.33
0.30	0.50	0.20	0.32	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.37
	0.30		0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.33	0.34
	0.20		0.22	0.24	0.25	0.26	0.27	0.29	0.29	0.31	0.32
0.00	0.00	0.00	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19

Rating:5W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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

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

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	49.2	0.0	0.0	0.02	0.02
1.0-2.0	49.3	0.1	0.2	0.06	0.08
2.0-3.0	49.3	0.2	0.4	0.10	0.18
3.0-4.0	49.4	0.3	0.8	0.14	0.33
4.0-5.0	49.4	0.4	1.2	0.18	0.51
5.0-6.0	49.4	0.5	1.7	0.22	0.73
6.0-7.0	49.4	0.6	2.3	0.26	1.00
7.0-8.0	49.4	0.7	3.0	0.30	1.30
8.0-9.0	49.4	0.8	3.8	0.35	1.65
9.0-10.0	49.4	0.9	4.7	0.39	2.03
10.0-11.0	49.4	1.0	5.7	0.43	2.46
11.0-12.0	49.4	1.1	6.8	0.46	2.92
12.0-13.0	49.3	1.2	8.0	0.50	3.43
13.0-14.0	49.2	1.3	9.2	0.54	3.97
14.0-15.0	49.2	1.3	10.6	0.58	4.55
15.0-16.0	49.1	1.4	12.0	0.62	5.17
16.0-17.0	49.0	1.5	13.5	0.66	5.83
17.0-18.0	48.8	1.6	15.1	0.69	6.52
18.0-19.0	48.7	1.7	16.8	0.73	7.25
19.0-20.0	48.5	1.8	18.6	0.77	8.02
20.0-21.0	48.4	1.9	20.5	0.80	8.82
21.0-22.0	48.2	1.9	22.4	0.83	9.65
22.0-23.0	48.0	2.0	24.4	0.87	10.52
23.0-24.0	47.8	2.1	26.5	0.90	11.42
24.0-25.0	47.5	2.2	28.7	0.93	12.35
25.0-26.0	47.3	2.2	30.9	0.96	13.31
26.0-27.0	47.0	2.3	33.2	0.99	14.30
27.0-28.0	46.7	2.4	35.6	1.02	15.32
28.0-29.0	46.4	2.4	38.0	1.05	16.37
29.0-30.0	46.1	2.5	40.5	1.07	17.44
30.0-31.0	45.8	2.5	43.0	1.10	18.54
31.0-32.0	45.5	2.6	45.6	1.12	19.66
32.0-33.0	45.1	2.7	48.3	1.14	20.81
33.0-34.0	44.7	2.7	51.0	1.17	21.97
34.0-35.0	44.4	2.8	53.8	1.19	23.16
35.0-36.0	43.9	2.8	56.6	1.21	24.37

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

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

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	43.5	2.8	59.4	1.22	25.59
37.0-38.0	43.1	2.9	62.3	1.24	26.83
38.0-39.0	42.7	2.9	65.2	1.25	28.08
39.0-40.0	42.2	2.9	68.1	1.27	29.35
40.0-41.0	41.8	3.0	71.1	1.28	30.63
41.0-42.0	41.3	3.0	74.1	1.29	31.93
42.0-43.0	40.8	3.0	77.1	1.30	33.23
43.0-44.0	40.3	3.0	80.2	1.31	34.54
44.0-45.0	39.8	3.1	83.2	1.32	35.85
45.0-46.0	39.2	3.1	86.3	1.32	37.18
46.0-47.0	38.7	3.1	89.4	1.33	38.50
47.0-48.0	38.1	3.1	92.5	1.33	39.83
48.0-49.0	37.6	3.1	95.5	1.33	41.16
49.0-50.0	37.0	3.1	98.6	1.33	42.49
50.0-51.0	36.4	3.1	101.7	1.33	43.81
51.0-52.0	35.8	3.1	104.8	1.32	45.14
52.0-53.0	35.2	3.1	107.8	1.32	46.45
53.0-54.0	34.5	3.0	110.9	1.31	47.76
54.0-55.0	33.9	3.0	113.9	1.30	49.07
55.0-56.0	33.2	3.0	116.9	1.29	50.36
56.0-57.0	32.6	3.0	119.9	1.28	51.64
57.0-58.0	31.9	2.9	122.8	1.27	52.91
58.0-59.0	31.2	2.9	125.7	1.26	54.17
59.0-60.0	30.5	2.9	128.6	1.24	55.41
60.0-61.0	29.8	2.8	131.5	1.23	56.64
61.0-62.0	29.1	2.8	134.3	1.21	57.85
62.0-63.0	28.4	2.8	137.0	1.19	59.04
63.0-64.0	27.6	2.7	139.8	1.17	60.21
64.0-65.0	26.9	2.7	142.4	1.15	61.35
65.0-66.0	26.2	2.6	145.0	1.13	62.48
66.0-67.0	25.5	2.6	147.6	1.10	63.58
67.0-68.0	24.7	2.5	150.1	1.08	64.66
68.0-69.0	23.9	2.4	152.5	1.05	65.71
69.0-70.0	23.2	2.4	154.9	1.02	66.74
70.0-71.0	22.4	2.3	157.2	1.00	67.74
71.0-72.0	21.7	2.3	159.5	0.97	68.71

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

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

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	20.9	2.2	161.7	0.94	69.65
73.0-74.0	20.1	2.1	163.8	0.91	70.56
74.0-75.0	19.4	2.0	165.8	0.88	71.44
75.0-76.0	18.7	2.0	167.8	0.85	72.30
76.0-77.0	17.9	1.9	169.7	0.82	73.12
77.0-78.0	17.2	1.8	171.6	0.79	73.91
78.0-79.0	16.5	1.8	173.3	0.76	74.68
79.0-80.0	15.8	1.7	175.0	0.73	75.41
80.0-81.0	15.1	1.6	176.7	0.70	76.11
81.0-82.0	14.5	1.6	178.2	0.68	76.79
82.0-83.0	13.9	1.5	179.7	0.65	77.44
83.0-84.0	13.3	1.4	181.2	0.62	78.06
84.0-85.0	12.7	1.4	182.6	0.60	78.66
85.0-86.0	12.1	1.3	183.9	0.57	79.23
86.0-87.0	11.6	1.3	185.2	0.55	79.78
87.0-88.0	11.2	1.2	186.4	0.53	80.31
88.0-89.0	10.8	1.2	187.6	0.51	80.82
89.0-90.0	10.6	1.2	188.8	0.50	81.32
90.0-91.0	10.5	1.1	189.9	0.49	81.81
91.0-92.0	10.4	1.1	191.0	0.49	82.30
92.0-93.0	10.3	1.1	192.2	0.49	82.79
93.0-94.0	10.3	1.1	193.3	0.48	83.27
94.0-95.0	10.2	1.1	194.4	0.48	83.75
95.0-96.0	10.1	1.1	195.5	0.48	84.23
96.0-97.0	10.1	1.1	196.6	0.47	84.70
97.0-98.0	10.0	1.1	197.7	0.47	85.17
98.0-99.0	9.9	1.1	198.8	0.46	85.64
99.0-100.0	9.9	1.1	199.8	0.46	86.10
100.0-101.0	9.8	1.1	200.9	0.45	86.55
101.0-102.0	9.7	1.0	201.9	0.45	87.00
102.0-103.0	9.6	1.0	203.0	0.44	87.44
103.0-104.0	9.6	1.0	204.0	0.44	87.88
104.0-105.0	9.5	1.0	205.0	0.43	88.32
105.0-106.0	9.4	1.0	206.0	0.43	88.74
106.0-107.0	9.3	1.0	207.0	0.42	89.16
107.0-108.0	9.2	1.0	207.9	0.41	89.58

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

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

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	9.1	0.9	208.9	0.41	89.99
109.0-110.0	9.0	0.9	209.8	0.40	90.39
110.0-111.0	8.9	0.9	210.7	0.39	90.78
111.0-112.0	8.8	0.9	211.6	0.39	91.17
112.0-113.0	8.7	0.9	212.5	0.38	91.55
113.0-114.0	8.6	0.9	213.4	0.37	91.92
114.0-115.0	8.5	0.8	214.2	0.36	92.29
115.0-116.0	8.4	0.8	215.0	0.36	92.64
116.0-117.0	8.2	0.8	215.9	0.35	92.99
117.0-118.0	8.1	0.8	216.6	0.34	93.33
118.0-119.0	8.0	0.8	217.4	0.33	93.67
119.0-120.0	7.9	0.7	218.2	0.32	93.99
120.0-121.0	7.7	0.7	218.9	0.31	94.30
121.0-122.0	7.6	0.7	219.6	0.31	94.61
122.0-123.0	7.5	0.7	220.3	0.30	94.91
123.0-124.0	7.3	0.7	221.0	0.29	95.19
124.0-125.0	7.2	0.6	221.6	0.28	95.47
125.0-126.0	7.0	0.6	222.2	0.27	95.74
126.0-127.0	6.9	0.6	222.8	0.26	96.00
127.0-128.0	6.7	0.6	223.4	0.25	96.25
128.0-129.0	6.5	0.6	224.0	0.24	96.50
129.0-130.0	6.4	0.5	224.5	0.23	96.73
130.0-131.0	6.2	0.5	225.0	0.22	96.95
131.0-132.0	6.0	0.5	225.5	0.21	97.17
132.0-133.0	5.9	0.5	226.0	0.20	97.37
133.0-134.0	5.7	0.5	226.5	0.20	97.57
134.0-135.0	5.5	0.4	226.9	0.19	97.75
135.0-136.0	5.4	0.4	227.3	0.18	97.93
136.0-137.0	5.2	0.4	227.7	0.17	98.10
137.0-138.0	5.0	0.4	228.1	0.16	98.26
138.0-139.0	4.8	0.4	228.4	0.15	98.41
139.0-140.0	4.7	0.3	228.8	0.14	98.55
140.0-141.0	4.5	0.3	229.1	0.13	98.69
141.0-142.0	4.3	0.3	229.4	0.13	98.81
142.0-143.0	4.1	0.3	229.6	0.12	98.93
143.0-144.0	3.8	0.2	229.9	0.11	99.04

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

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

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	3.6	0.2	230.1	0.10	99.14
145.0-146.0	3.5	0.2	230.3	0.09	99.23
146.0-147.0	3.2	0.2	230.5	0.08	99.32
147.0-148.0	3.0	0.2	230.7	0.08	99.39
148.0-149.0	2.9	0.2	230.9	0.07	99.46
149.0-150.0	2.7	0.1	231.0	0.06	99.53
150.0-151.0	2.5	0.1	231.2	0.06	99.59
151.0-152.0	2.4	0.1	231.3	0.05	99.64
152.0-153.0	2.2	0.1	231.4	0.05	99.69
153.0-154.0	2.0	0.1	231.5	0.04	99.73
154.0-155.0	1.9	0.1	231.6	0.04	99.77
155.0-156.0	1.7	0.1	231.7	0.03	99.80
156.0-157.0	1.6	0.1	231.7	0.03	99.83
157.0-158.0	1.4	0.1	231.8	0.03	99.86
158.0-159.0	1.3	0.1	231.8	0.02	99.88
159.0-160.0	1.2	0.0	231.9	0.02	99.90
160.0-161.0	1.0	0.0	231.9	0.02	99.91
161.0-162.0	0.9	0.0	231.9	0.01	99.93
162.0-163.0	0.8	0.0	232.0	0.01	99.94
163.0-164.0	0.7	0.0	232.0	0.01	99.95
164.0-165.0	0.6	0.0	232.0	0.01	99.95
165.0-166.0	0.5	0.0	232.0	0.01	99.96
166.0-167.0	0.5	0.0	232.0	0.01	99.97
167.0-168.0	0.5	0.0	232.1	0.00	99.97
168.0-169.0	0.5	0.0	232.1	0.00	99.98
169.0-170.0	0.5	0.0	232.1	0.00	99.98
170.0-171.0	0.5	0.0	232.1	0.00	99.98
171.0-172.0	0.5	0.0	232.1	0.00	99.99
172.0-173.0	0.5	0.0	232.1	0.00	99.99
173.0-174.0	0.5	0.0	232.1	0.00	99.99
174.0-175.0	0.5	0.0	232.1	0.00	100.00
175.0-176.0	0.5	0.0	232.1	0.00	100.00
176.0-177.0	0.5	0.0	232.1	0.00	100.00
177.0-178.0	0.5	0.0	232.1	0.00	100.00
178.0-179.0	0.5	0.0	232.1	0.00	100.00
179.0-180.0	0.5	0.0	232.1	0.00	100.00

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

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