GENLED Brands
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Report No.: **Test Time: 2023/2/20 16:29**

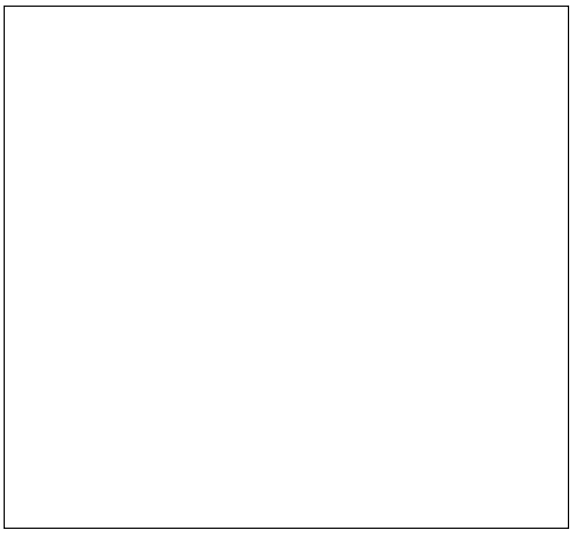
Luminaire Property

Luminaire Manufacturer: ACOLYTE
Luminaire Category: WASHER
Luminaire Description: FORTEACNS12RGBW4020-WHITE ON
Luminous Length (mm): 330 **Luminous Width (mm): 96**
Luminous Height (mm): 162.5 **Voltage: 219.3 V**
Current: 0.107 A **Power: 9.59 W**
Power Factor: 0.410

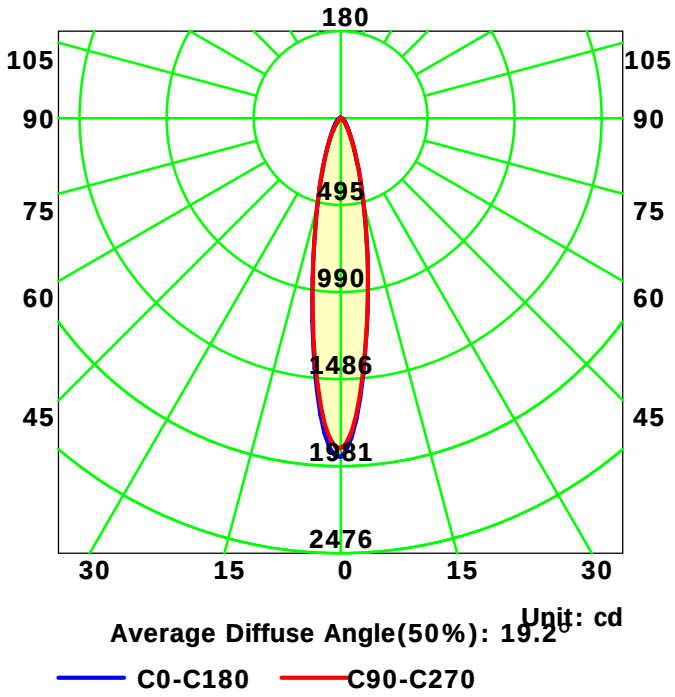
Photometric Results

CIE Class: Direct **Total Rated Lamp Lumens: 470.0 lm**
Measurement Flux: 470 lm **Efficiency: 100%**
Downward Ratio: 97% **Upward Ratio: 3%**
Horizontal Diffuse Angle(10%,50%): H47.7,H19
Vertical Diffuse Angle(10%,50%): V48.4,V19.3
Luminaire Efficacy Rating (LER): 49 **Central Intensity: 1927.28 cd**
Max. Intensity: 1973.52 cd **Pos of Max. Intensity: H210 V1**

Picture Of Luminaire



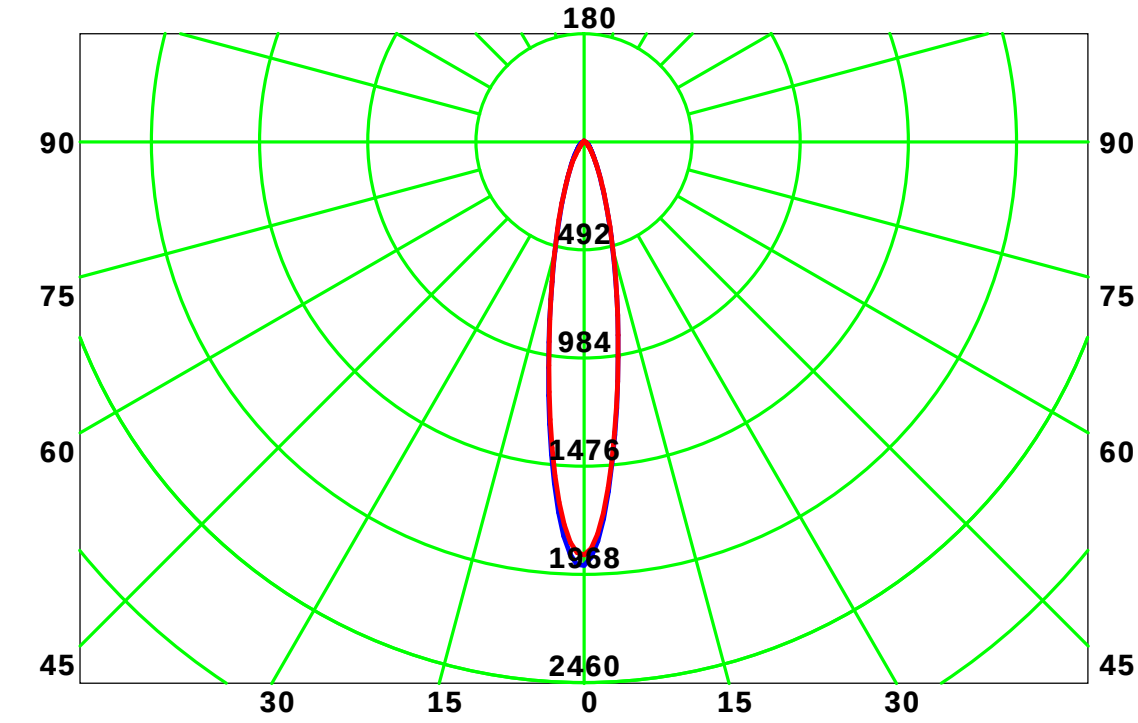
Luminous Intensity Distribution Curve

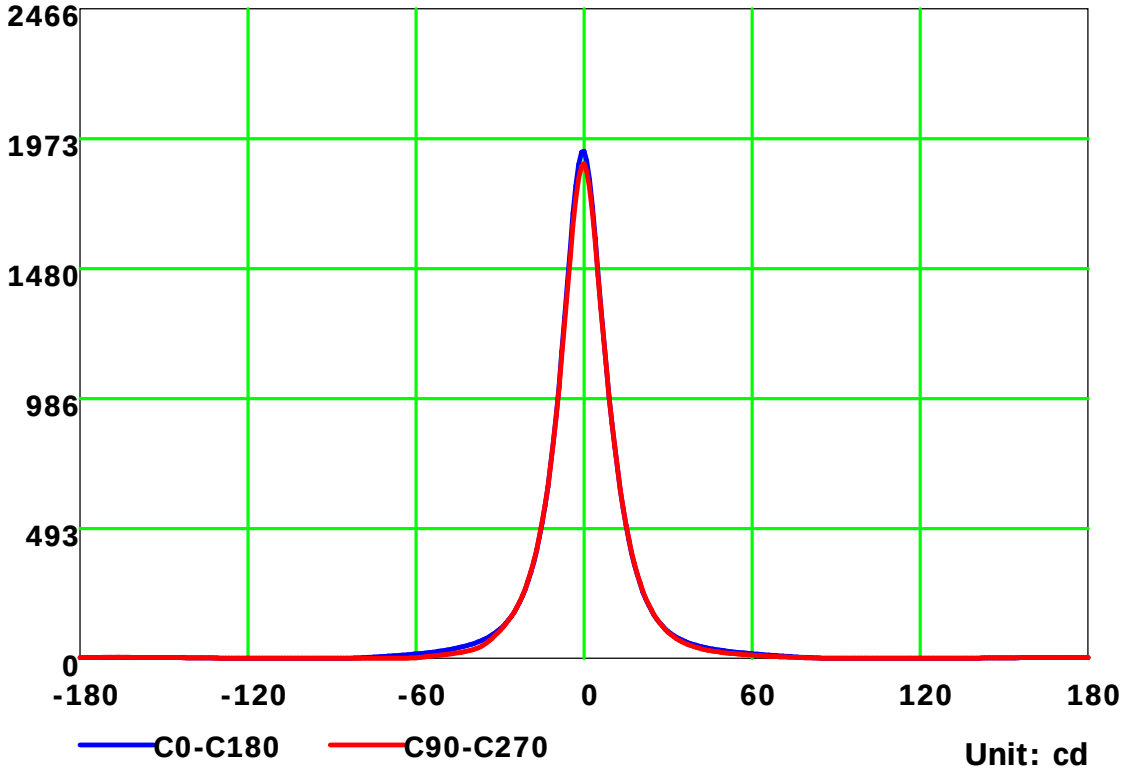


Unit: cd
Average Diffuse Angle(50%): 19.2°
C0-C180 **C90-C270**

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: Jacky **Inspector:**

Luminous Intensity Distribution Curve

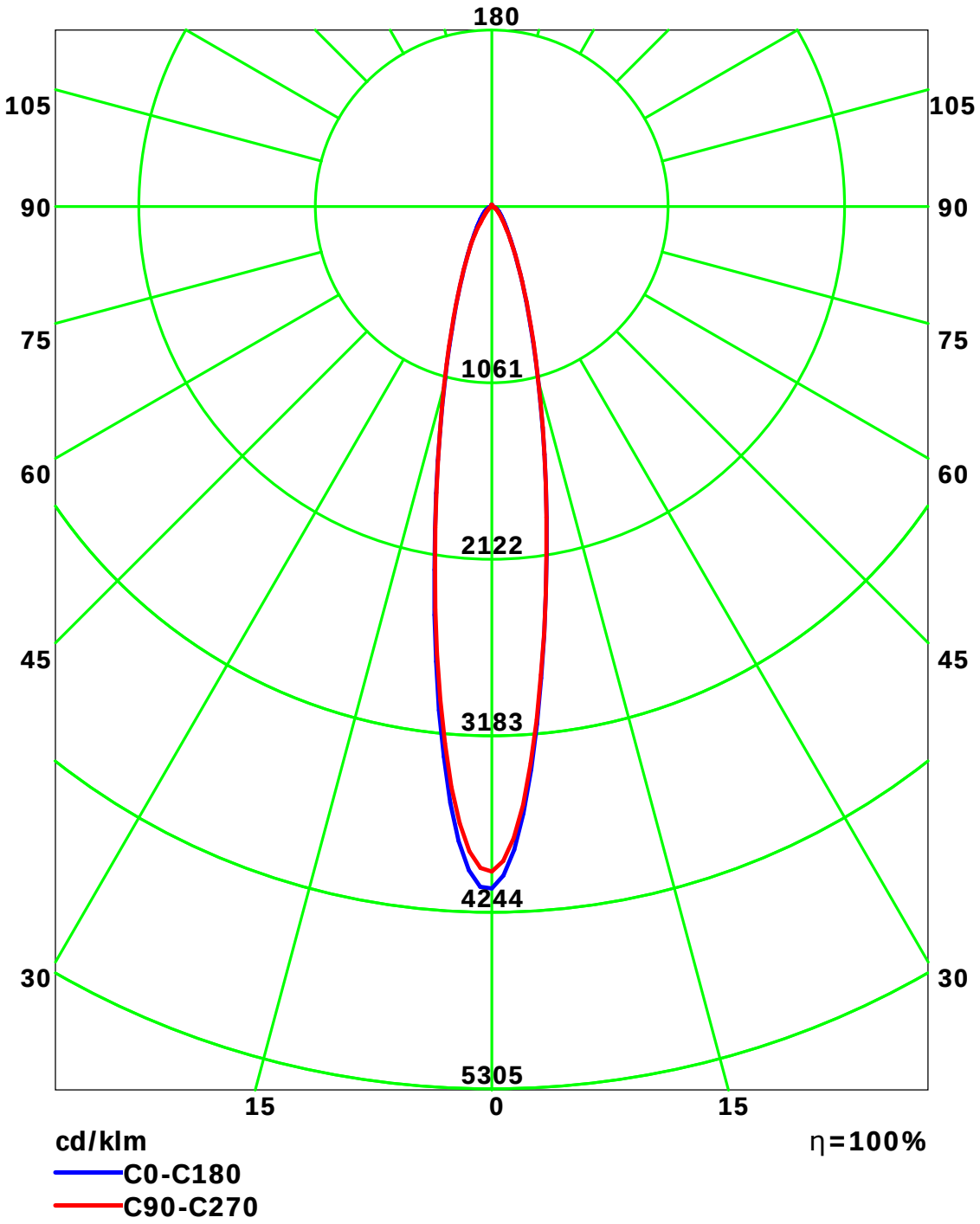




C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

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:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

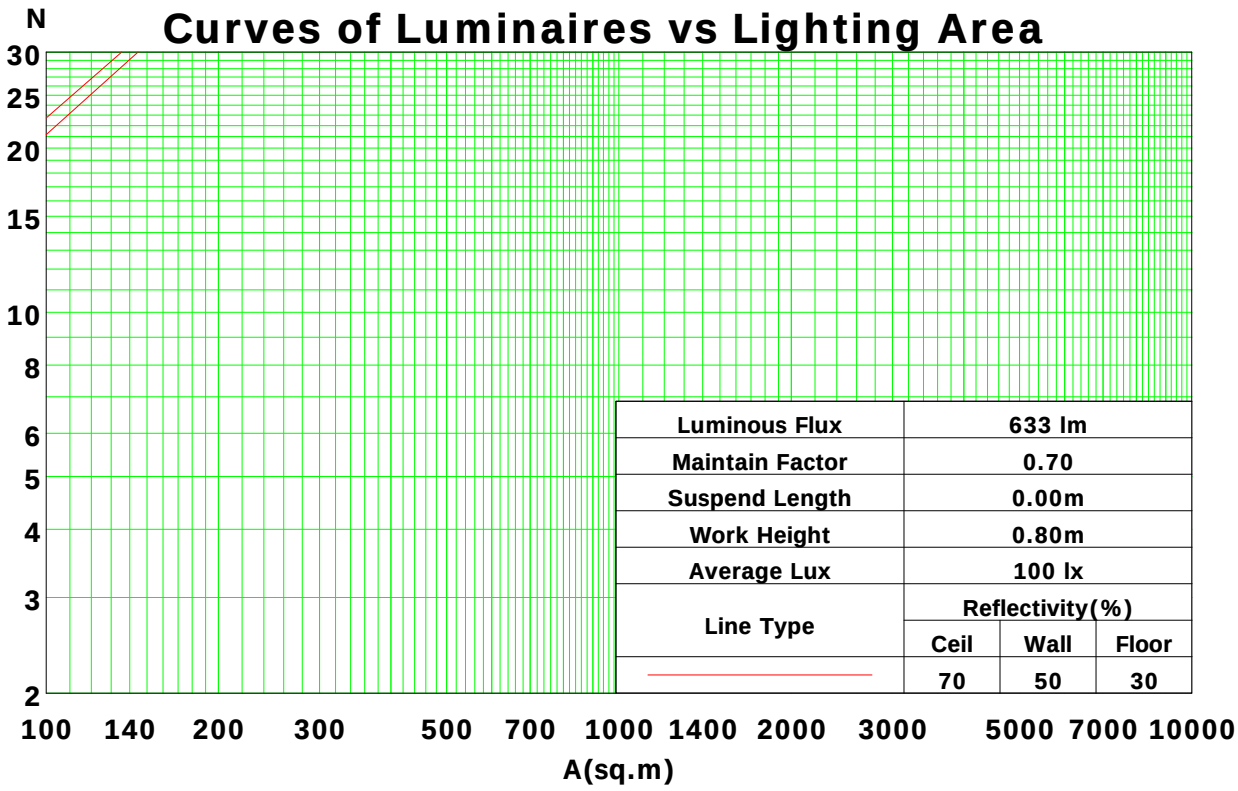
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	109	109	109	104	104	104	99	99	99	97
1	113	110	107	105	110	108	105	103	103	101	100	99	97	96	95	94	93	91
2	107	103	99	95	105	101	97	94	97	94	92	94	91	89	90	89	87	85
3	103	96	92	88	100	95	90	87	92	88	85	89	86	84	86	84	82	80
4	98	91	86	82	96	90	85	81	87	83	80	85	81	79	83	80	77	76
5	94	86	81	77	92	85	80	76	83	79	75	81	77	74	79	76	74	72
6	90	82	77	73	88	81	76	72	79	75	72	78	74	71	76	73	70	69
7	87	78	73	69	85	77	72	69	76	71	68	75	71	68	73	70	67	66
8	83	75	70	66	82	74	69	66	73	68	65	72	68	65	71	67	64	63
9	80	72	67	63	79	71	66	63	70	66	63	69	65	62	68	65	62	61
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	66	62	60	59

Spacing Criteria (0-180): 0.32
Spacing Criteria (90-270): 0.33
Spacing Criteria (Diagonal): 0.37

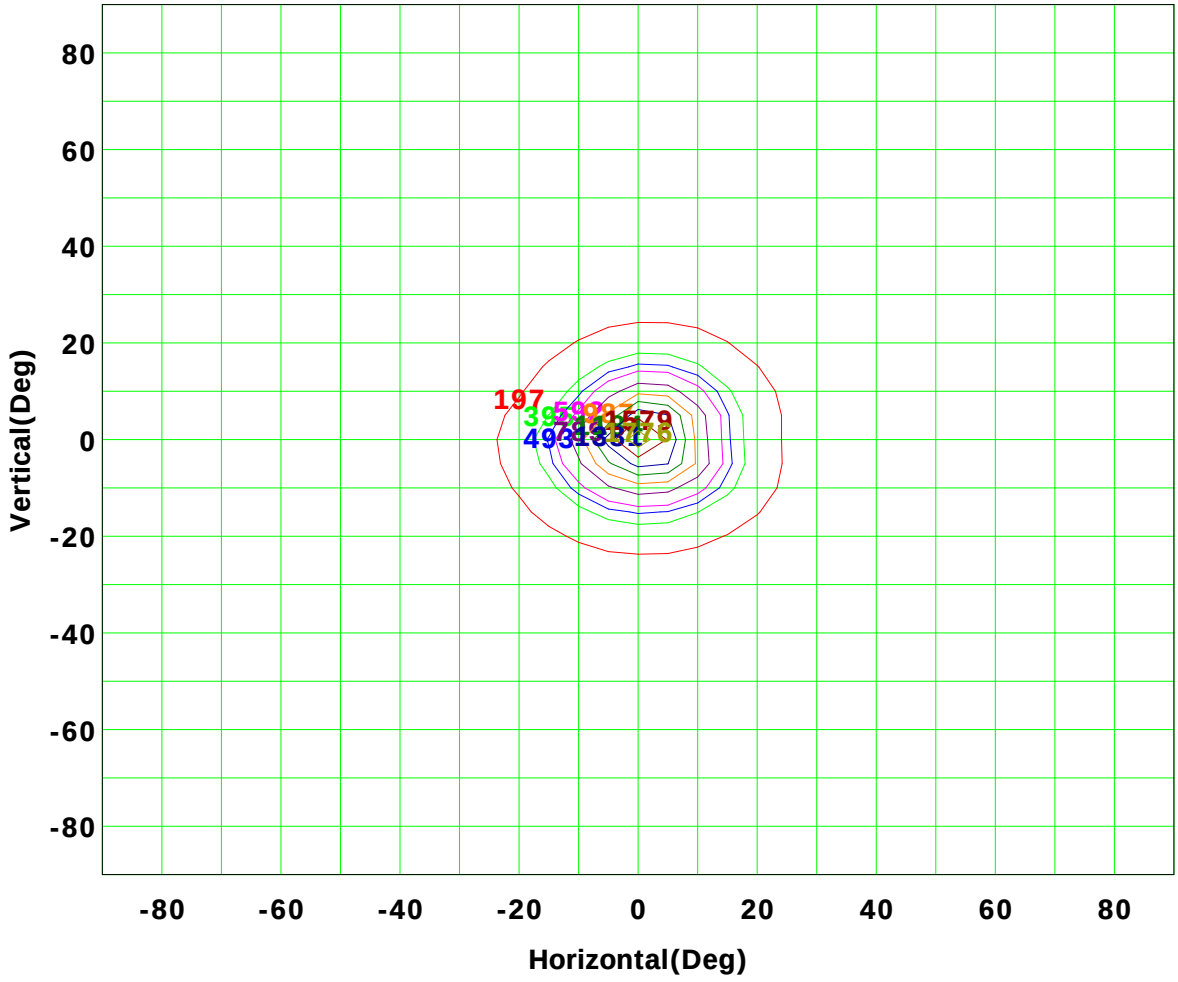
Curves of Luminaires vs Lighting Area



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

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

Isocandela (rectangle)



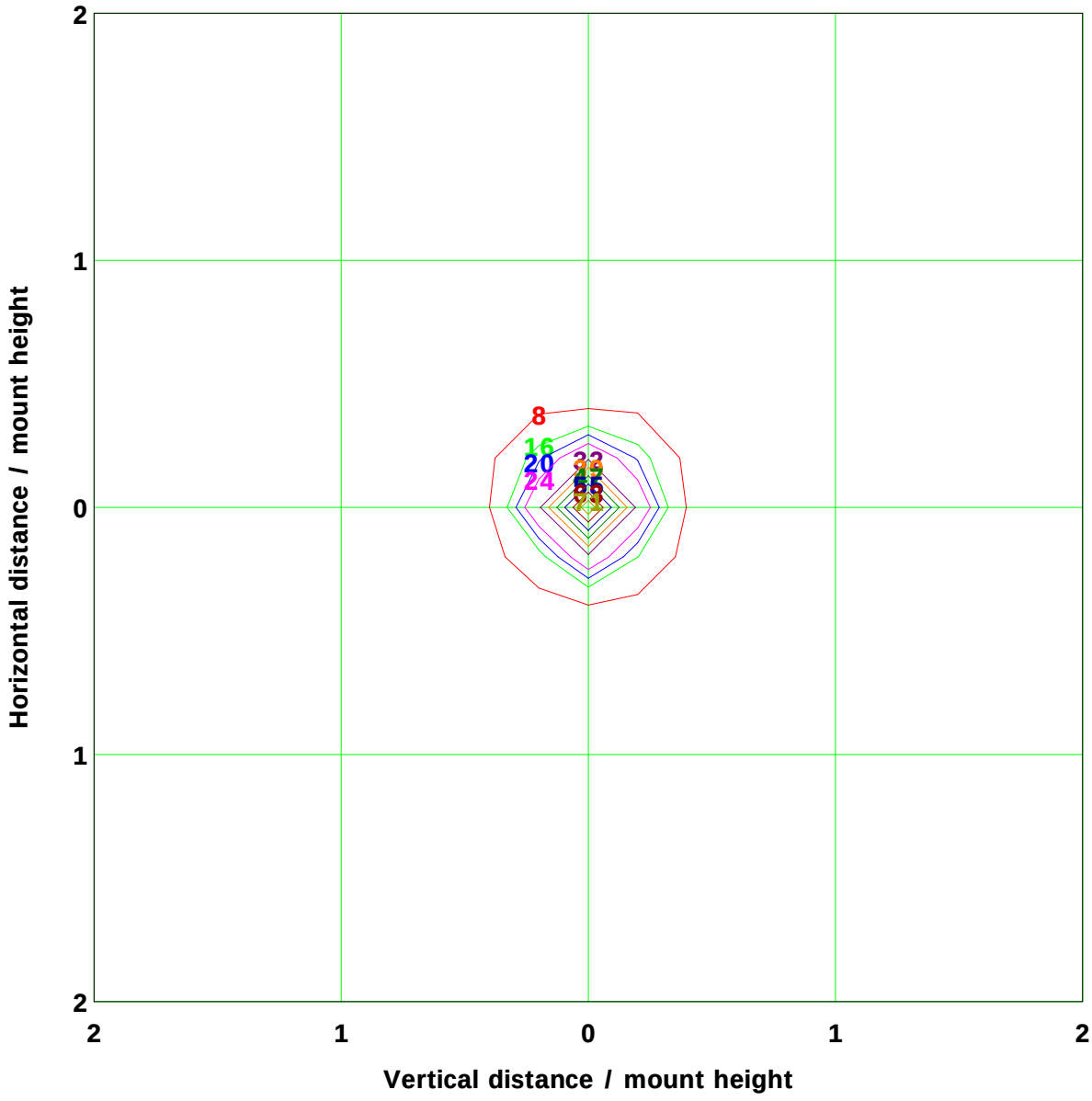
Imax (100%): 1974 cd

(10%): 197 cd	(20%): 395 cd
(25%): 493 cd	(30%): 592 cd
(40%): 789 cd	(50%): 987 cd
(60%): 1184 cd	(70%): 1381 cd
(80%): 1579 cd	(90%): 1776 cd

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

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%): 78.9 lx

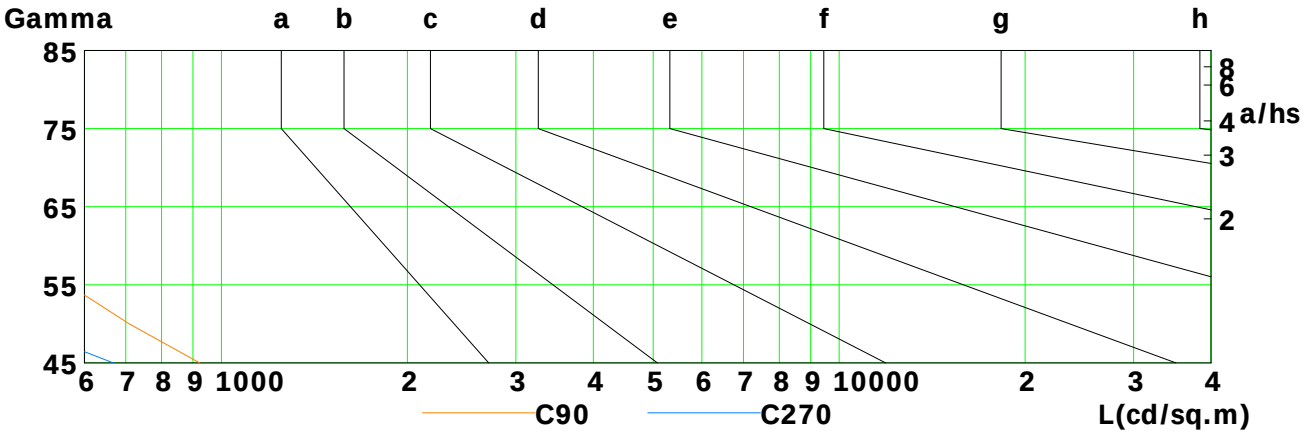
(10%): 7.9 lx	(20%): 15.8 lx
(25%): 19.7 lx	(30%): 23.7 lx
(40%): 31.6 lx	(50%): 39.5 lx
(60%): 47.3 lx	(70%): 55.2 lx
(80%): 63.1 lx	(90%): 71.0 lx

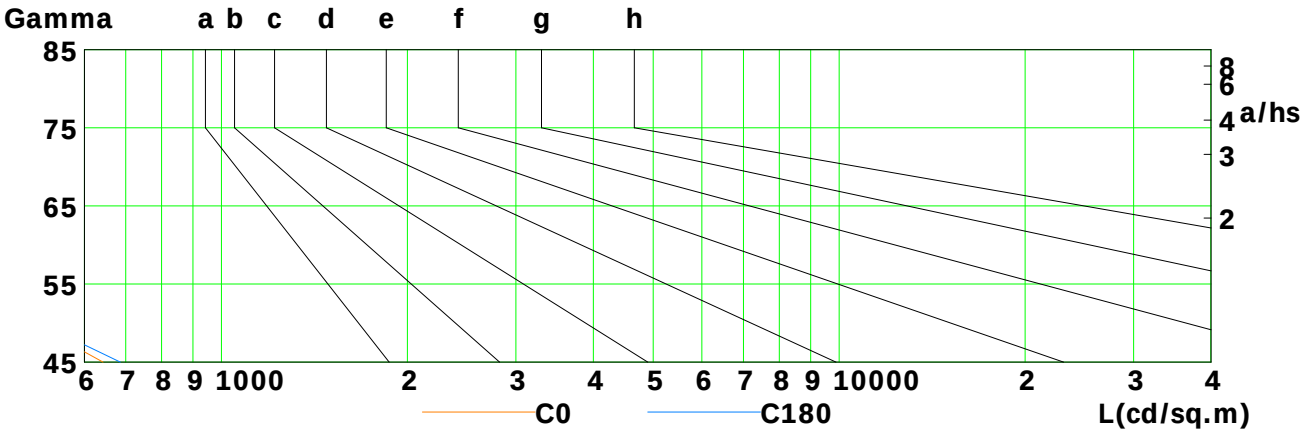
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

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



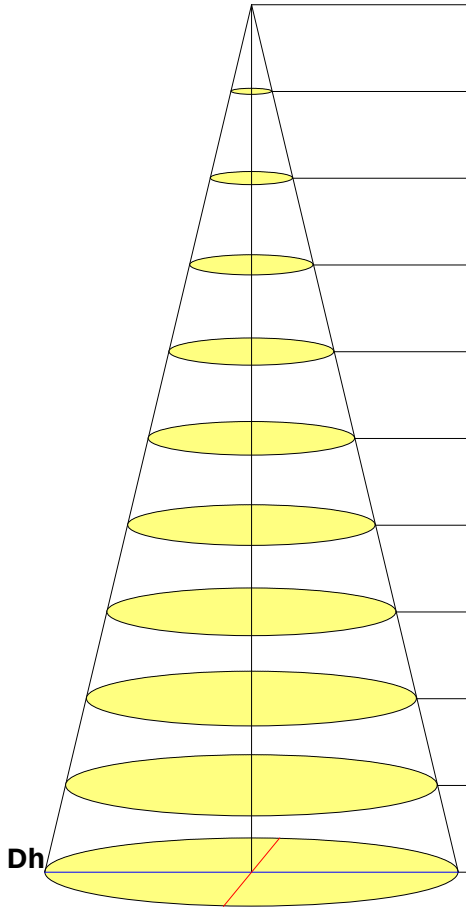


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	643	496	387	304	235	174	119	72	41
C90	922	710	565	457	368	285	216	154	125
C180	686	509	385	294	223	161	103	59	31
C270	669	462	287	122	72	64	70	79	93

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

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

Illuminance at a Distance



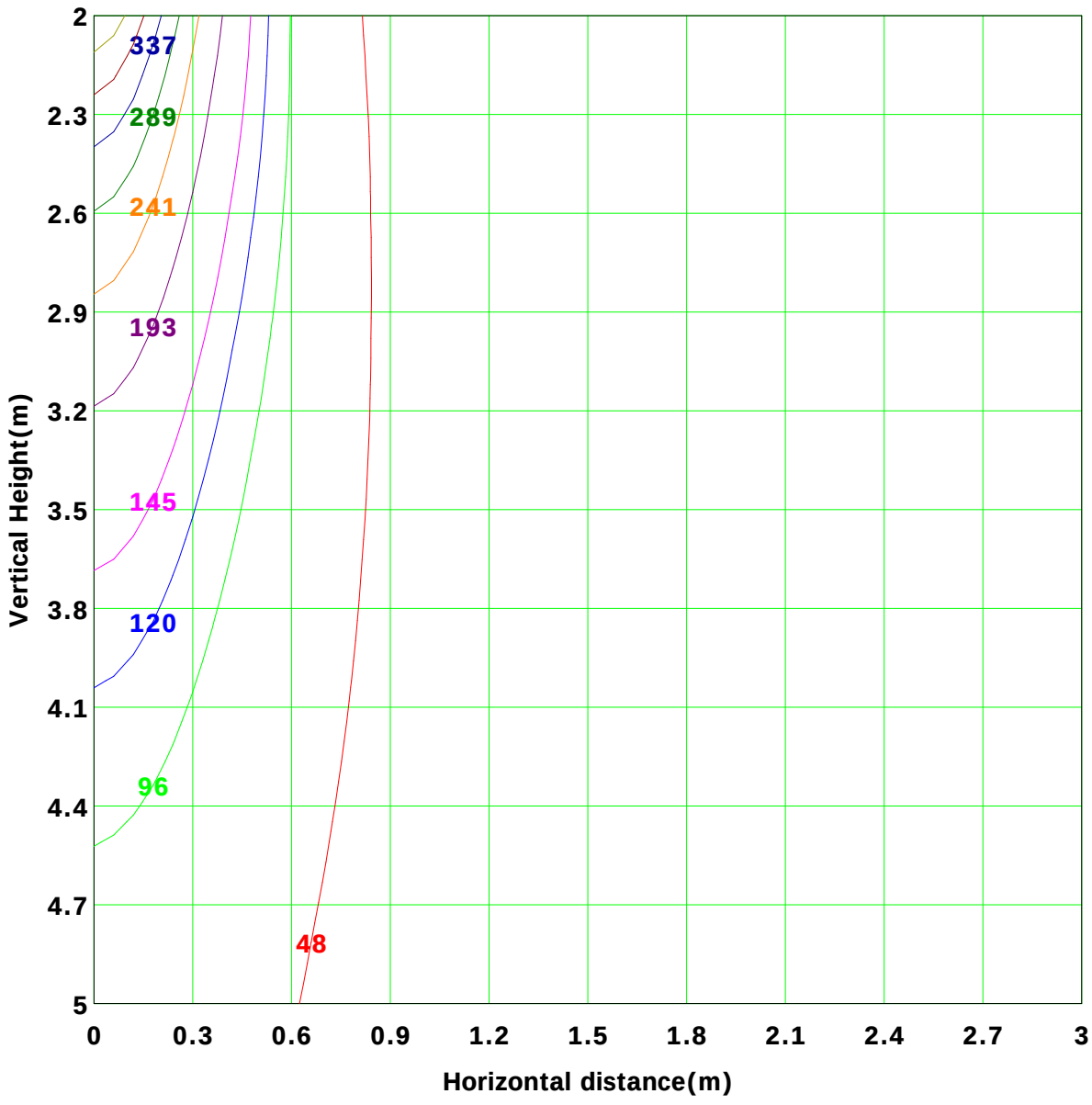
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	1927.28	0.33/0.34	0.1	1221.27
2.0	481.82	0.67/0.68	0.4	305.32
3.0	214.14	1.00/1.02	0.8	135.70
4.0	120.46	1.34/1.36	1.5	76.33
5.0	77.09	1.67/1.70	2.3	48.85
6.0	53.54	2.00/2.05	3.3	33.92
7.0	39.33	2.34/2.39	4.5	24.92
8.0	30.11	2.67/2.73	5.9	19.08
9.0	23.79	3.01/3.07	7.5	15.08
10.0	19.27	3.34/3.41	9.2	12.21

Beam Angle(B): H19.0 V19.3 Field Angle(F): H47.7 V48.4

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

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: 481.8 lx

(10%): 48.2 lx
(20%): 96.4 lx
(25%): 120.5 lx
(30%): 144.5 lx
(40%): 192.7 lx
(50%): 240.9 lx
(60%): 289.1 lx
(70%): 337.3 lx
(80%): 385.5 lx
(90%): 433.6 lx

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

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	Flux(E)	Flux(T)	90	80	70	60	50	40	30	20	10	0	-10	-20	-30	-40	-50	-60	-70	-80	-90
-90	0.0	0.1	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
-80	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70	0.0	1.7	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0
-60	0.0	3.8	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.0	0.0	0.0
-50	0.0	7.4	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	0.9	0.8	0.7	0.5	0.3	0.1	0.1	0.0	0.0
-40	0.0	13.8	0.1	0.1	0.2	0.2	0.4	0.6	0.9	1.3	1.7	2.0	2.0	1.7	1.3	0.8	0.4	0.2	0.1	0.0	0.0
-30	6.3	27.6	0.1	0.1	0.3	0.4	0.4	0.7	1.3	2.3	3.9	5.1	5.1	3.9	2.3	1.1	0.5	0.2	0.1	0.0	0.0
-20	49.0	63.5	0.1	0.2	0.3	0.5	0.5	0.9	1.7	3.8	9.0	16.0	15.3	9.0	4.1	1.7	0.6	0.3	0.1	0.0	0.0
-10	113.4	126.3	0.1	0.2	0.3	0.5	0.5	1.0	2.0	5.2	15.2	38.5	39.0	15.8	5.5	2.0	0.7	0.3	0.1	0.0	0.0
0	97.4	110.7	0.1	0.2	0.3	0.5	0.5	0.9	2.0	5.0	14.2	34.3	31.8	13.5	5.0	1.8	0.7	0.3	0.1	0.0	0.0
10	36.3	52.2	0.1	0.1	0.3	0.3	0.5	0.8	1.6	3.4	7.5	13.6	12.2	6.5	3.2	1.4	0.6	0.3	0.1	0.0	0.0
20	2.8	22.9	0.1	0.1	0.1	0.3	0.4	0.7	1.1	1.9	3.2	4.5	4.3	2.8	1.8	0.9	0.5	0.2	0.1	0.0	0.0
30	0.0	11.7	0.1	0.1	0.1	0.2	0.3	0.5	0.8	1.1	1.5	1.8	1.7	1.4	1.0	0.6	0.4	0.2	0.1	0.0	0.0
40	0.0	6.6	0.0	0.1	0.1	0.2	0.2	0.4	0.5	0.6	0.7	0.8	0.8	0.7	0.6	0.4	0.2	0.1	0.1	0.0	0.0
50	0.0	3.6	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0
60	0.0	1.7	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0
70	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.1	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		455	0.8	1.5	2.9	4.7	7.6	13.2	26.3	59.0	118.9	114.3	57.2	26.4	11.9	5.5	2.5	0.9	0.6	0.6	0.6
Flux(T)	305		0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	44.6	106.6	101.8	42.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
Flux(E)																					

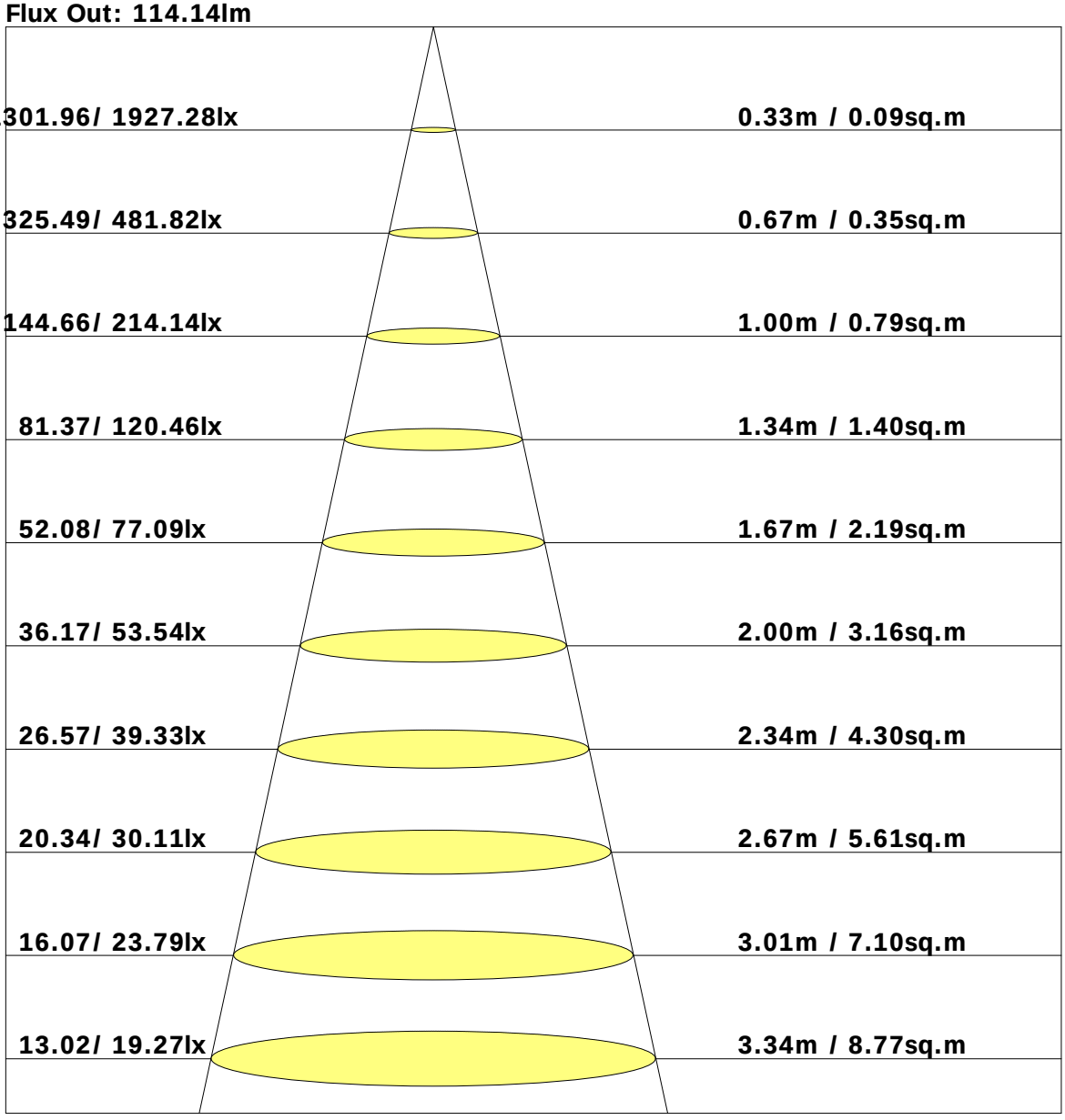
Horizontal plane

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

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: 114.14lm



Height Avg./Nadir. E Beam Angle:19.0° Diameter / Area

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

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	7.3	8.3	7.7	8.7	9.1	4.9	5.9	5.3	6.3	6.7
3H	8.5	9.4	9.0	9.8	10.3	5.8	6.7	6.3	7.1	7.6
4H	8.9	9.8	9.4	10.2	10.6	6.1	6.9	6.5	7.3	7.8
6H	9.2	9.9	9.6	10.4	10.8	6.2	6.9	6.7	7.4	7.9
8H	9.2	9.9	9.7	10.4	10.9	6.2	6.9	6.7	7.4	7.9
12H	9.2	9.9	9.7	10.4	10.9	6.2	6.9	6.7	7.3	7.9
X=4H Y=2H	7.2	8.1	7.7	8.5	9.0	5.4	6.3	5.9	6.7	7.1
3H	8.6	9.3	9.1	9.7	10.2	6.4	7.1	6.9	7.6	8.1
4H	9.0	9.6	9.5	10.1	10.6	6.7	7.4	7.2	7.8	8.4
6H	9.3	9.9	9.9	10.4	10.9	6.9	7.5	7.5	8.0	8.5
8H	9.4	9.9	9.9	10.4	11.0	7.0	7.5	7.5	8.0	8.5
12H	9.5	9.9	10.0	10.4	11.0	7.0	7.4	7.5	8.0	8.5
X=8H Y=4H	8.9	9.4	9.5	9.9	10.5	6.9	7.4	7.4	7.9	8.5
6H	9.3	9.7	9.8	10.2	10.8	7.1	7.5	7.7	8.1	8.7
8H	9.4	9.7	10.0	10.3	10.9	7.2	7.6	7.8	8.2	8.7
12H	9.5	9.8	10.1	10.4	11.0	7.3	7.6	7.9	8.2	8.8
X=12H Y=4H	8.9	9.3	9.4	9.9	10.4	6.9	7.3	7.4	7.9	8.4
6H	9.2	9.6	9.8	10.1	10.7	7.2	7.5	7.7	8.0	8.7
8H	9.4	9.7	9.9	10.2	10.9	7.3	7.6	7.8	8.1	8.8

Calculate in accordance with CIE 190:2010

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

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 = 0.50				
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	0.85	0.91	0.95	0.99	1.03	1.06	1.08	1.10	1.12
	0.30		0.80	0.86	0.91	0.94	0.99	1.02	1.05	1.08	1.10
	0.20		0.76	0.83	0.87	0.91	0.96	1.00	1.02	1.06	1.08
0.50	0.50	0.20	0.83	0.89	0.93	0.96	1.00	1.02	1.04	1.06	1.07
	0.30		0.79	0.85	0.89	0.92	0.97	0.99	1.01	1.04	1.06
	0.20		0.75	0.82	0.86	0.89	0.94	0.97	0.99	1.02	1.04
0.30	0.50	0.20	0.81	0.87	0.91	0.93	0.96	0.98	1.00	1.02	1.03
	0.30		0.78	0.83	0.87	0.90	0.94	0.96	0.98	1.00	1.02
	0.20		0.75	0.81	0.85	0.88	0.92	0.94	0.96	0.99	1.00
0.00	0.00	0.00	0.73	0.78	0.82	0.85	0.88	0.90	0.92	0.94	0.95

Rating:10W 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: Jacky

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 = 0.50								
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	0.62	0.50	0.43	0.37	0.29	0.24	0.21	0.16	0.13
	0.30		0.52	0.43	0.37	0.33	0.26	0.22	0.19	0.15	0.12
	0.20		0.44	0.38	0.33	0.29	0.24	0.20	0.18	0.14	0.12
0.50	0.50	0.20	0.58	0.47	0.40	0.34	0.27	0.26	0.19	0.15	0.12
	0.30		0.49	0.41	0.35	0.31	0.25	0.21	0.18	0.14	0.11
	0.20		0.43	0.36	0.31	0.28	0.23	0.19	0.17	0.13	0.11
0.30	0.50	0.20	0.55	0.44	0.37	0.32	0.25	0.20	0.17	0.13	0.11
	0.30		0.47	0.39	0.33	0.29	0.23	0.19	0.16	0.13	0.10
	0.20		0.41	0.35	0.30	0.26	0.21	0.18	0.15	0.12	0.10
0.00	0.00	0.00	0.27	0.22	0.18	0.16	0.12	0.10	0.08	0.07	0.05

Rating:10W 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: Jacky

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 = 0.50								
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	0.16	0.18	0.19	0.20	0.22	0.22	0.23	0.24	0.25
	0.30		0.12	0.14	0.16	0.17	0.19	0.20	0.21	0.22	0.23
	0.20		0.09	0.11	0.13	0.14	0.16	0.18	0.19	0.20	0.22
0.50	0.50	0.20	0.16	0.17	0.19	0.19	0.21	0.22	0.22	0.23	0.23
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22
	0.20		0.09	0.11	0.13	0.14	0.16	0.17	0.18	0.20	0.21
0.30	0.50	0.20	0.15	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.21
	0.20		0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.19	0.20
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Rating:10W 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: Jacky

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	1860.0	1.8	1.8	0.38	0.38
1.0-2.0	1824.1	5.2	7.0	1.11	1.49
2.0-3.0	1756.4	8.4	15.4	1.79	3.28
3.0-4.0	1663.8	11.1	26.6	2.37	5.65
4.0-5.0	1553.6	13.4	39.9	2.84	8.49
5.0-6.0	1433.5	15.1	55.0	3.21	11.70
6.0-7.0	1310.8	16.3	71.3	3.46	15.16
7.0-8.0	1189.9	17.0	88.3	3.62	18.79
8.0-9.0	1073.7	17.4	105.7	3.70	22.49
9.0-10.0	965.1	17.5	123.2	3.72	26.21
10.0-11.0	865.3	17.3	140.5	3.68	29.89
11.0-12.0	773.5	16.9	157.4	3.60	33.49
12.0-13.0	690.0	16.4	173.7	3.48	36.97
13.0-14.0	615.4	15.8	189.5	3.35	40.32
14.0-15.0	548.2	15.1	204.6	3.20	43.52
15.0-16.0	488.1	14.3	218.9	3.04	46.57
16.0-17.0	435.5	13.6	232.4	2.89	49.45
17.0-18.0	388.8	12.8	245.2	2.73	52.18
18.0-19.0	347.1	12.1	257.3	2.57	54.75
19.0-20.0	310.6	11.4	268.7	2.42	57.17
20.0-21.0	278.3	10.7	279.4	2.27	59.45
21.0-22.0	249.5	10.0	289.4	2.13	61.58
22.0-23.0	224.4	9.4	298.8	2.00	63.58
23.0-24.0	202.2	8.8	307.7	1.88	65.46
24.0-25.0	182.4	8.3	316.0	1.77	67.23
25.0-26.0	165.1	7.8	323.7	1.66	68.89
26.0-27.0	149.6	7.3	331.1	1.56	70.45
27.0-28.0	135.9	6.9	338.0	1.46	71.91
28.0-29.0	123.8	6.5	344.4	1.38	73.29
29.0-30.0	113.1	6.1	350.5	1.30	74.59
30.0-31.0	103.3	5.8	356.3	1.22	75.81
31.0-32.0	94.6	5.4	361.7	1.15	76.97
32.0-33.0	86.8	5.1	366.8	1.09	78.05
33.0-34.0	79.7	4.8	371.6	1.03	79.08
34.0-35.0	73.3	4.6	376.2	0.97	80.05
35.0-36.0	67.4	4.3	380.5	0.91	80.96

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

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	62.1	4.1	384.5	0.86	81.82
37.0-38.0	57.3	3.8	388.4	0.81	82.64
38.0-39.0	53.0	3.6	392.0	0.77	83.41
39.0-40.0	49.2	3.4	395.4	0.73	84.14
40.0-41.0	45.6	3.3	398.7	0.69	84.83
41.0-42.0	42.6	3.1	401.8	0.66	85.49
42.0-43.0	39.8	2.9	404.7	0.63	86.12
43.0-44.0	37.2	2.8	407.5	0.60	86.71
44.0-45.0	34.9	2.7	410.2	0.57	87.28
45.0-46.0	32.7	2.6	412.8	0.54	87.83
46.0-47.0	30.8	2.4	415.2	0.52	88.35
47.0-48.0	28.9	2.3	417.6	0.50	88.85
48.0-49.0	27.3	2.2	419.8	0.48	89.32
49.0-50.0	25.7	2.1	421.9	0.46	89.78
50.0-51.0	24.2	2.0	424.0	0.43	90.21
51.0-52.0	22.7	2.0	425.9	0.42	90.63
52.0-53.0	21.4	1.9	427.8	0.40	91.03
53.0-54.0	20.1	1.8	429.6	0.38	91.40
54.0-55.0	18.9	1.7	431.3	0.36	91.76
55.0-56.0	17.7	1.6	432.9	0.34	92.10
56.0-57.0	16.6	1.5	434.4	0.32	92.43
57.0-58.0	15.6	1.4	435.8	0.31	92.73
58.0-59.0	14.6	1.4	437.2	0.29	93.02
59.0-60.0	13.6	1.3	438.5	0.27	93.30
60.0-61.0	12.7	1.2	439.7	0.26	93.56
61.0-62.0	11.9	1.1	440.8	0.24	93.80
62.0-63.0	11.1	1.1	441.9	0.23	94.03
63.0-64.0	10.4	1.0	442.9	0.22	94.25
64.0-65.0	9.7	1.0	443.9	0.20	94.45
65.0-66.0	9.1	0.9	444.8	0.19	94.65
66.0-67.0	8.5	0.9	445.7	0.18	94.83
67.0-68.0	8.0	0.8	446.5	0.17	95.00
68.0-69.0	7.4	0.8	447.2	0.16	95.16
69.0-70.0	6.9	0.7	447.9	0.15	95.31
70.0-71.0	6.4	0.7	448.6	0.14	95.45
71.0-72.0	6.0	0.6	449.2	0.13	95.59

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

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	5.5	0.6	449.8	0.12	95.71
73.0-74.0	5.0	0.5	450.3	0.11	95.82
74.0-75.0	4.6	0.5	450.8	0.10	95.92
75.0-76.0	4.3	0.5	451.3	0.10	96.02
76.0-77.0	3.9	0.4	451.7	0.09	96.11
77.0-78.0	3.6	0.4	452.1	0.08	96.19
78.0-79.0	3.3	0.4	452.4	0.08	96.27
79.0-80.0	3.0	0.3	452.7	0.07	96.34
80.0-81.0	2.8	0.3	453.0	0.06	96.40
81.0-82.0	2.5	0.3	453.3	0.06	96.46
82.0-83.0	2.4	0.3	453.6	0.05	96.51
83.0-84.0	2.2	0.2	453.8	0.05	96.56
84.0-85.0	2.1	0.2	454.0	0.05	96.61
85.0-86.0	2.0	0.2	454.3	0.05	96.66
86.0-87.0	1.9	0.2	454.5	0.04	96.70
87.0-88.0	1.8	0.2	454.7	0.04	96.74
88.0-89.0	1.8	0.2	454.9	0.04	96.79
89.0-90.0	1.8	0.2	455.1	0.04	96.83
90.0-91.0	1.8	0.2	455.3	0.04	96.87
91.0-92.0	1.8	0.2	455.4	0.04	96.91
92.0-93.0	1.8	0.2	455.6	0.04	96.95
93.0-94.0	1.8	0.2	455.8	0.04	96.99
94.0-95.0	1.8	0.2	456.0	0.04	97.04
95.0-96.0	1.8	0.2	456.2	0.04	97.08
96.0-97.0	1.7	0.2	456.4	0.04	97.12
97.0-98.0	1.7	0.2	456.6	0.04	97.16
98.0-99.0	1.7	0.2	456.8	0.04	97.20
99.0-100.0	1.7	0.2	457.0	0.04	97.24
100.0-101.0	1.7	0.2	457.2	0.04	97.28
101.0-102.0	1.7	0.2	457.4	0.04	97.32
102.0-103.0	1.7	0.2	457.5	0.04	97.36
103.0-104.0	1.7	0.2	457.7	0.04	97.40
104.0-105.0	1.7	0.2	457.9	0.04	97.43
105.0-106.0	1.7	0.2	458.1	0.04	97.47
106.0-107.0	1.7	0.2	458.3	0.04	97.51
107.0-108.0	1.7	0.2	458.4	0.04	97.55

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

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	1.7	0.2	458.6	0.04	97.59
109.0-110.0	1.7	0.2	458.8	0.04	97.63
110.0-111.0	1.7	0.2	459.0	0.04	97.66
111.0-112.0	1.8	0.2	459.2	0.04	97.70
112.0-113.0	1.8	0.2	459.3	0.04	97.74
113.0-114.0	1.8	0.2	459.5	0.04	97.78
114.0-115.0	1.8	0.2	459.7	0.04	97.82
115.0-116.0	1.8	0.2	459.9	0.04	97.85
116.0-117.0	1.8	0.2	460.1	0.04	97.89
117.0-118.0	1.8	0.2	460.2	0.04	97.93
118.0-119.0	1.8	0.2	460.4	0.04	97.97
119.0-120.0	1.9	0.2	460.6	0.04	98.00
120.0-121.0	1.9	0.2	460.8	0.04	98.04
121.0-122.0	1.9	0.2	460.9	0.04	98.08
122.0-123.0	1.9	0.2	461.1	0.04	98.12
123.0-124.0	1.9	0.2	461.3	0.04	98.15
124.0-125.0	2.0	0.2	461.5	0.04	98.19
125.0-126.0	2.0	0.2	461.6	0.04	98.23
126.0-127.0	2.0	0.2	461.8	0.04	98.27
127.0-128.0	2.0	0.2	462.0	0.04	98.30
128.0-129.0	2.1	0.2	462.2	0.04	98.34
129.0-130.0	2.1	0.2	462.4	0.04	98.38
130.0-131.0	2.2	0.2	462.5	0.04	98.42
131.0-132.0	2.2	0.2	462.7	0.04	98.46
132.0-133.0	2.3	0.2	462.9	0.04	98.50
133.0-134.0	2.3	0.2	463.1	0.04	98.54
134.0-135.0	2.4	0.2	463.3	0.04	98.58
135.0-136.0	2.5	0.2	463.5	0.04	98.62
136.0-137.0	2.5	0.2	463.6	0.04	98.66
137.0-138.0	2.6	0.2	463.8	0.04	98.70
138.0-139.0	2.7	0.2	464.0	0.04	98.74
139.0-140.0	2.8	0.2	464.2	0.04	98.78
140.0-141.0	2.9	0.2	464.4	0.04	98.82
141.0-142.0	2.9	0.2	464.6	0.04	98.87
142.0-143.0	3.0	0.2	464.8	0.04	98.91
143.0-144.0	3.1	0.2	465.0	0.04	98.95

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

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	3.2	0.2	465.2	0.04	99.00
145.0-146.0	3.3	0.2	465.5	0.04	99.04
146.0-147.0	3.4	0.2	465.7	0.04	99.08
147.0-148.0	3.5	0.2	465.9	0.04	99.13
148.0-149.0	3.6	0.2	466.1	0.04	99.17
149.0-150.0	3.7	0.2	466.3	0.04	99.22
150.0-151.0	3.8	0.2	466.5	0.04	99.26
151.0-152.0	3.9	0.2	466.7	0.04	99.30
152.0-153.0	4.0	0.2	466.9	0.04	99.35
153.0-154.0	4.1	0.2	467.1	0.04	99.39
154.0-155.0	4.2	0.2	467.3	0.04	99.43
155.0-156.0	4.2	0.2	467.5	0.04	99.47
156.0-157.0	4.3	0.2	467.7	0.04	99.51
157.0-158.0	4.4	0.2	467.9	0.04	99.55
158.0-159.0	4.4	0.2	468.0	0.04	99.59
159.0-160.0	4.5	0.2	468.2	0.04	99.63
160.0-161.0	4.5	0.2	468.4	0.04	99.66
161.0-162.0	4.6	0.2	468.5	0.03	99.70
162.0-163.0	4.6	0.2	468.7	0.03	99.73
163.0-164.0	4.6	0.1	468.8	0.03	99.76
164.0-165.0	4.7	0.1	469.0	0.03	99.79
165.0-166.0	4.7	0.1	469.1	0.03	99.81
166.0-167.0	4.7	0.1	469.2	0.03	99.84
167.0-168.0	4.7	0.1	469.3	0.02	99.86
168.0-169.0	4.7	0.1	469.4	0.02	99.89
169.0-170.0	4.7	0.1	469.5	0.02	99.91
170.0-171.0	4.7	0.1	469.6	0.02	99.92
171.0-172.0	4.7	0.1	469.7	0.02	99.94
172.0-173.0	4.6	0.1	469.7	0.01	99.95
173.0-174.0	4.6	0.1	469.8	0.01	99.97
174.0-175.0	4.6	0.0	469.9	0.01	99.98
175.0-176.0	4.6	0.0	469.9	0.01	99.99
176.0-177.0	4.6	0.0	469.9	0.01	99.99
177.0-178.0	4.6	0.0	469.9	0.00	100.00
178.0-179.0	4.6	0.0	470.0	0.00	100.00
179.0-180.0	4.6	0.0	470.0	0.00	100.00

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

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