

Report No.:

Test Time: 2021/1/19 16:21

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: CHANNEL

Lamp Description: RB90SWS2203.030

Luminous Length (mm): 500

Luminous Height (mm): 19.4

Current: 0.216 A

Power Factor: 1.000

Luminaire Description: AC14

Number of Lamps: 1 ROW

Luminous Width (mm): 24

Voltage: 24.0 V

Power: 5.18 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 383.9 lm

Downward Ratio: 77%

Horizontal Diffuse Angle(10%,50%): H156.6,H106.4

Vertical Diffuse Angle(10%,50%): V165.9,V126.2

Luminaire Efficacy Rating (LER): 74

Max. Intensity: 147.7 cd

Total Rated Lamp Lumens: 383.9 lm

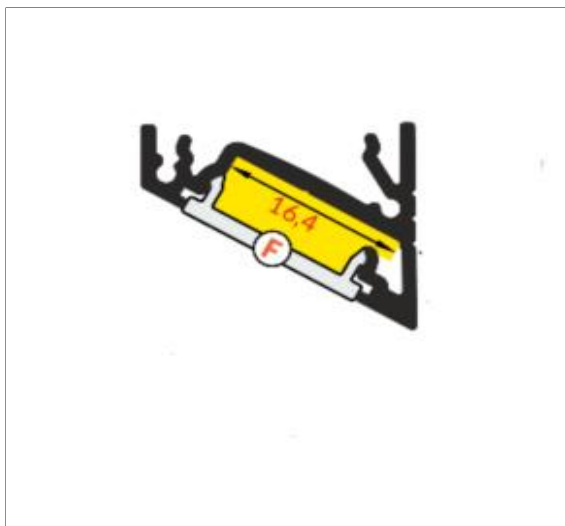
Efficiency: 100%

Upward Ratio: 23%

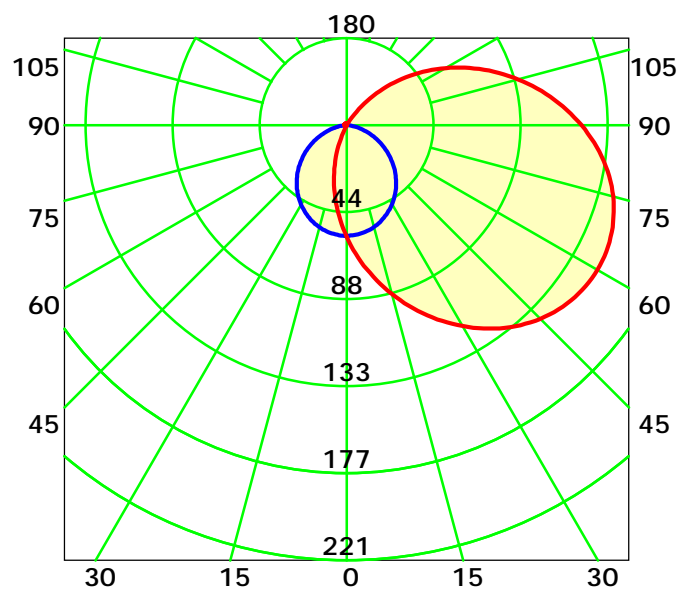
Central Intensity: 56.45 cd

Pos of Max. Intensity: H90 V60

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 116.3° Unit: cd

— C0-C180 — C90-C270

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

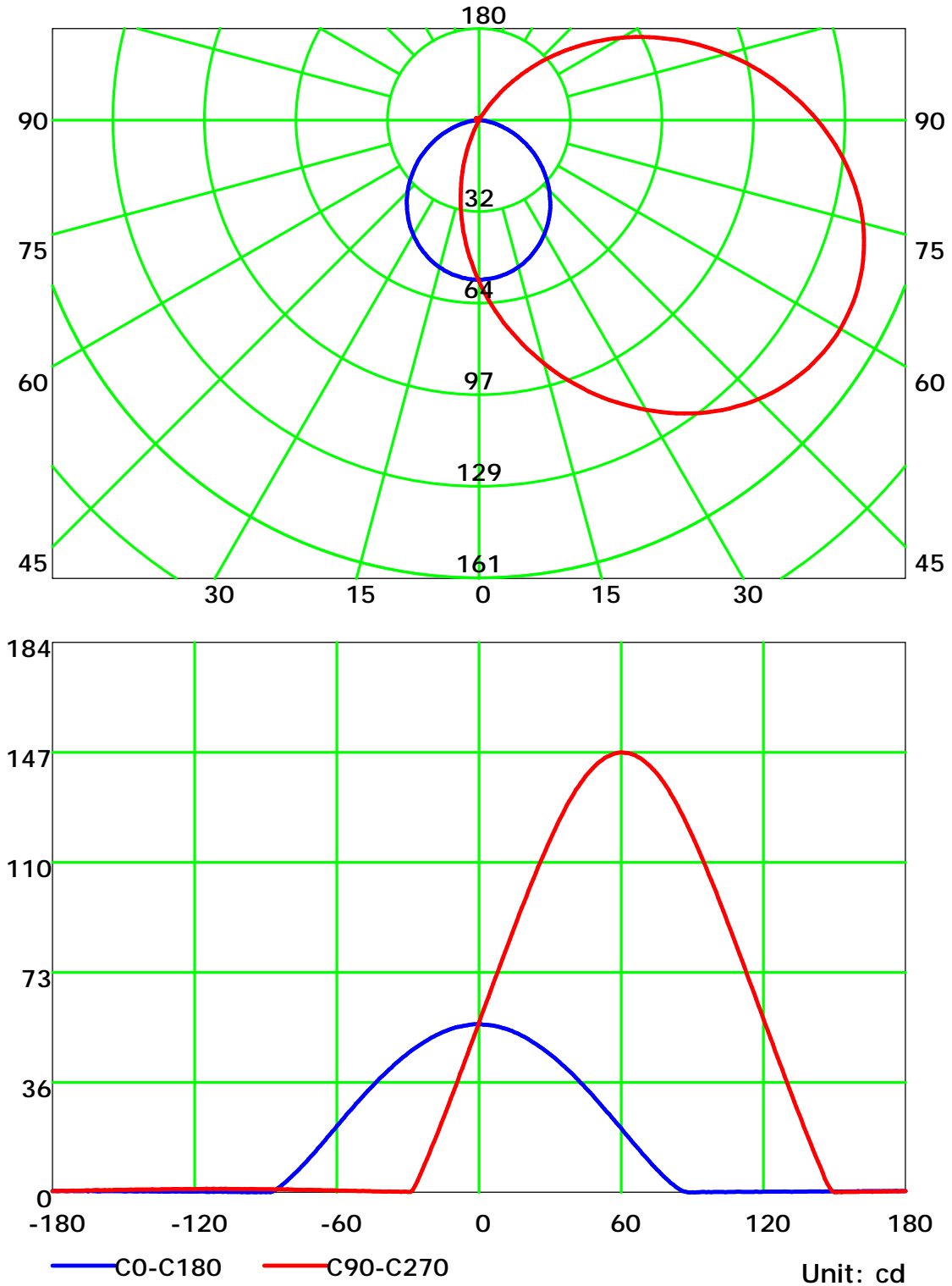
Distance: 9.028 m

Humidity: 60%

Inspector:



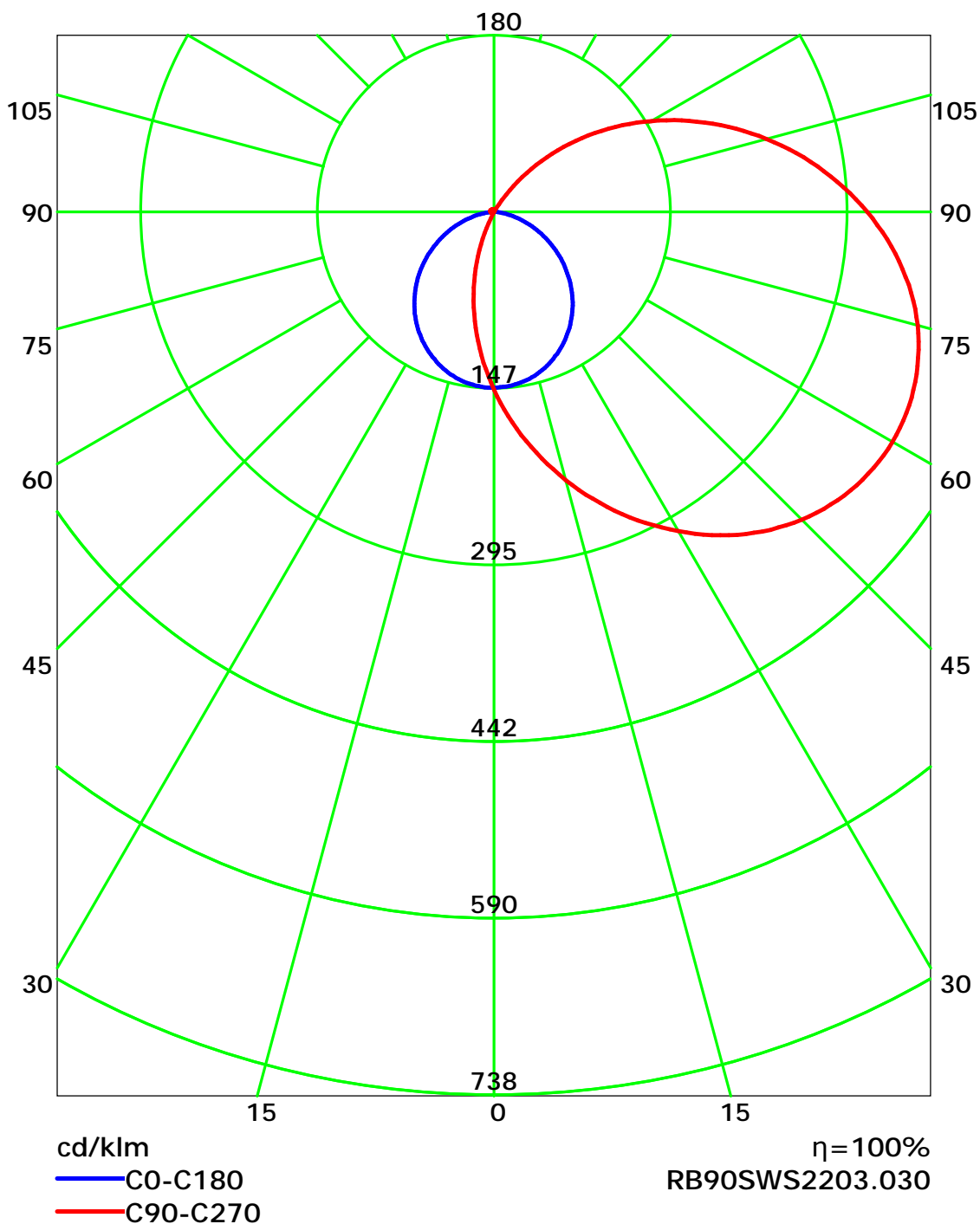
Luminous Intensity Distribution Curve



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:

Luminous Intensity Distribution Curve(cd/klm)



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:

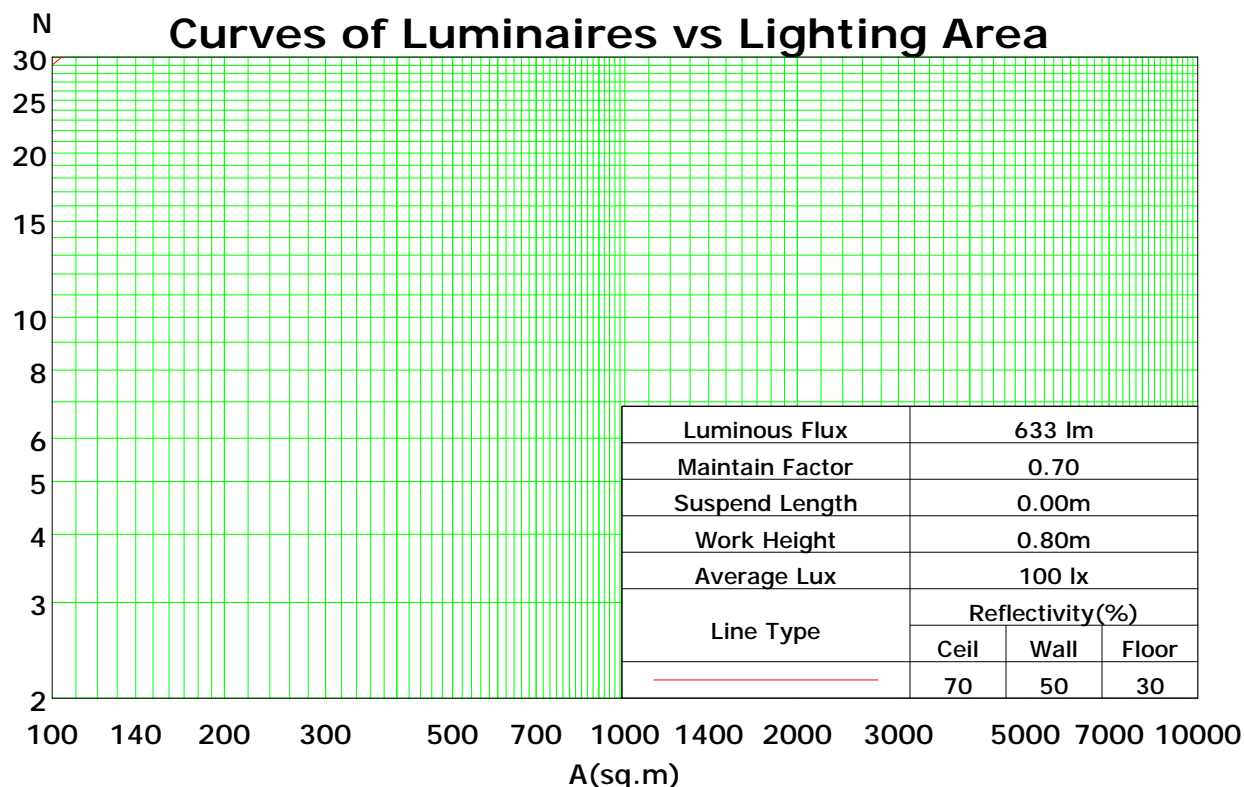
Coefficients Of Utilization - Zonal Cavity Method

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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	99	92	86	81	93	87	82	77	79	74	70	71	67	64	63	61	58	54
2	88	78	69	62	83	74	66	59	66	60	54	59	54	50	53	49	45	41
3	79	67	57	49	74	63	54	47	57	49	44	51	45	40	45	40	36	33
4	72	58	48	40	67	55	46	39	49	42	36	44	38	33	39	34	30	27
5	65	51	41	34	61	49	39	33	44	36	30	39	33	28	35	30	25	22
6	60	46	36	29	56	43	34	28	39	31	26	35	29	24	31	26	22	19
7	55	41	32	25	52	39	30	24	35	28	22	32	25	21	29	23	19	16
8	51	37	28	22	48	35	27	21	32	25	20	29	23	18	26	21	17	14
9	48	34	25	19	45	32	24	19	29	22	17	27	20	16	24	19	15	13
10	45	31	23	17	42	30	22	17	27	20	16	25	19	14	22	17	13	11

Spacing Criteria (0-180): 1.23

Spacing Criteria (90-270): 1.77

Spacing Criteria (Diagonal): 1.64



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

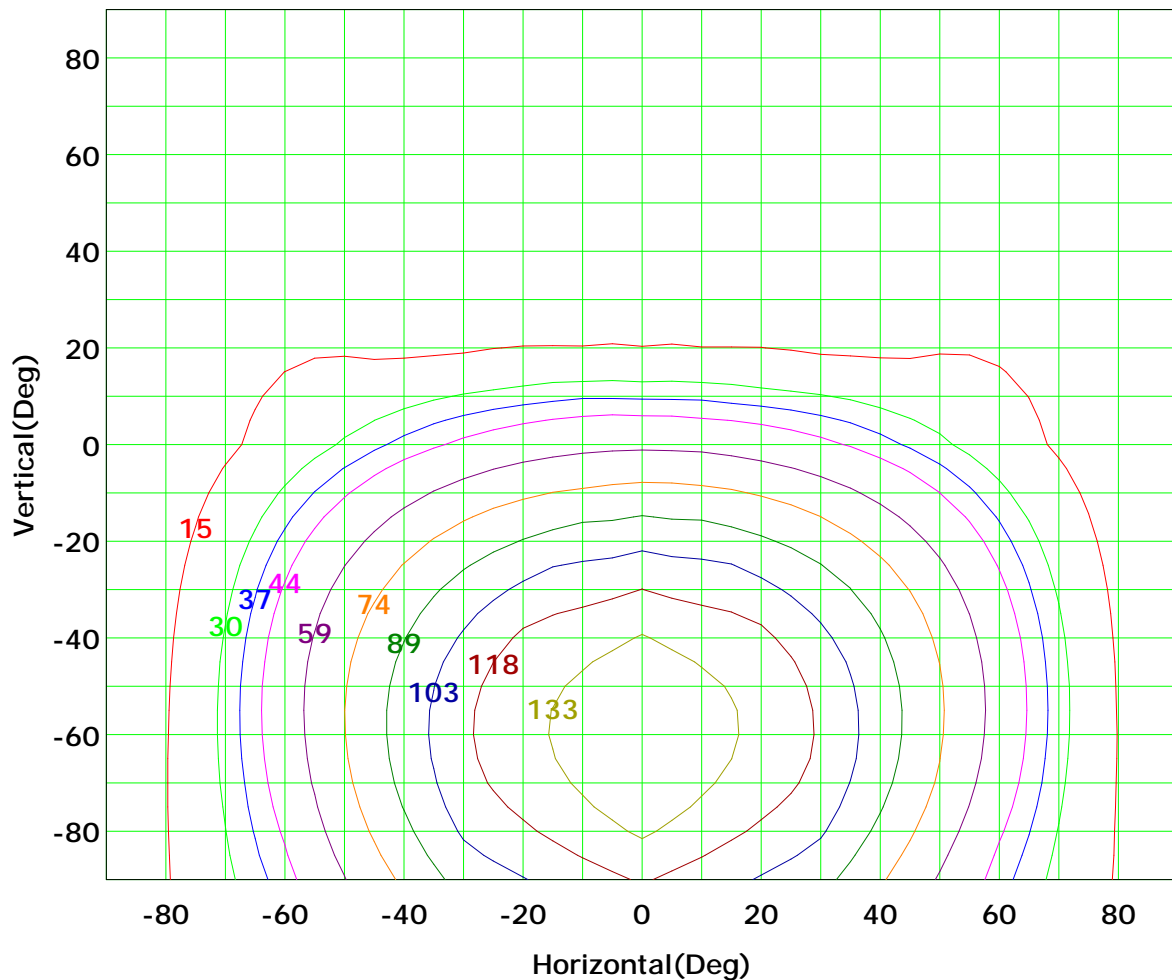
Distance: 9.028 m

Humidity: 60%

Inspector:



Isocandela (rectangle)



I_{max} (100%): 148 cd

(10%):	15 cd	(20%):	30 cd
(25%):	37 cd	(30%):	44 cd
(40%):	59 cd	(50%):	74 cd
(60%):	89 cd	(70%):	103 cd
(80%):	118 cd	(90%):	133 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

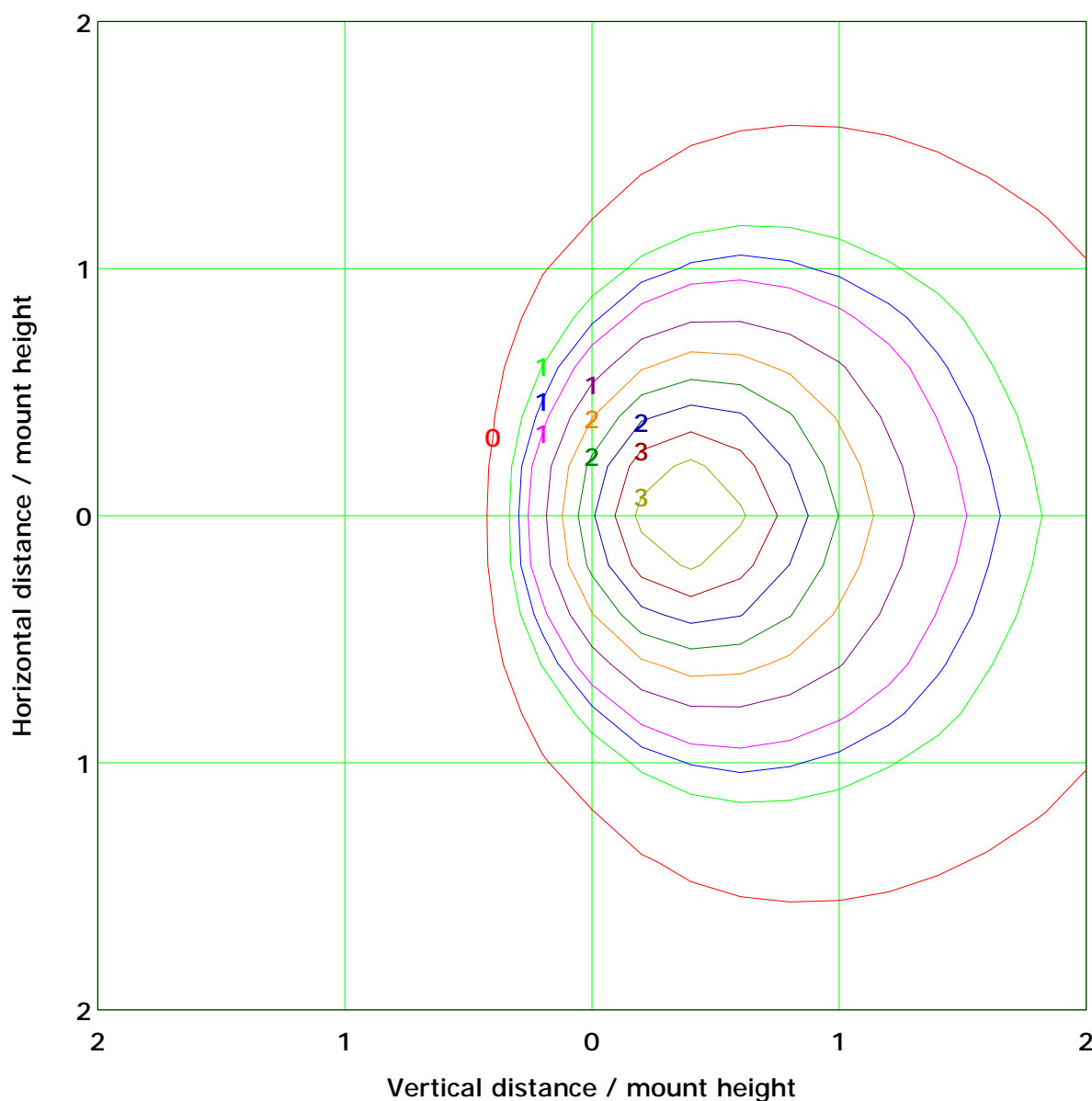
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 3.3 lx

(10%): 0.3 lx	(20%): 0.7 lx
(25%): 0.8 lx	(30%): 1.0 lx
(40%): 1.3 lx	(50%): 1.7 lx
(60%): 2.0 lx	(70%): 2.3 lx
(80%): 2.6 lx	(90%): 3.0 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

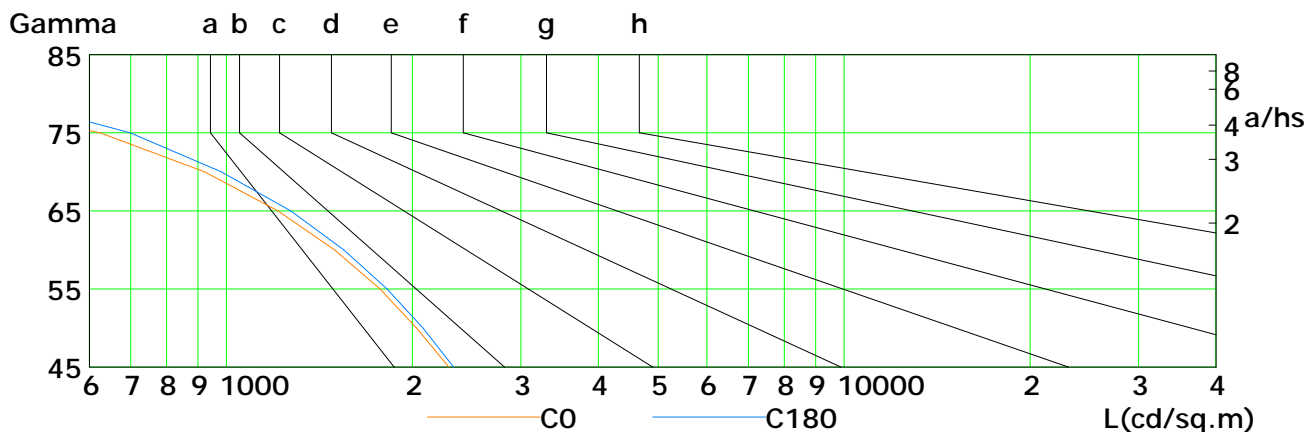
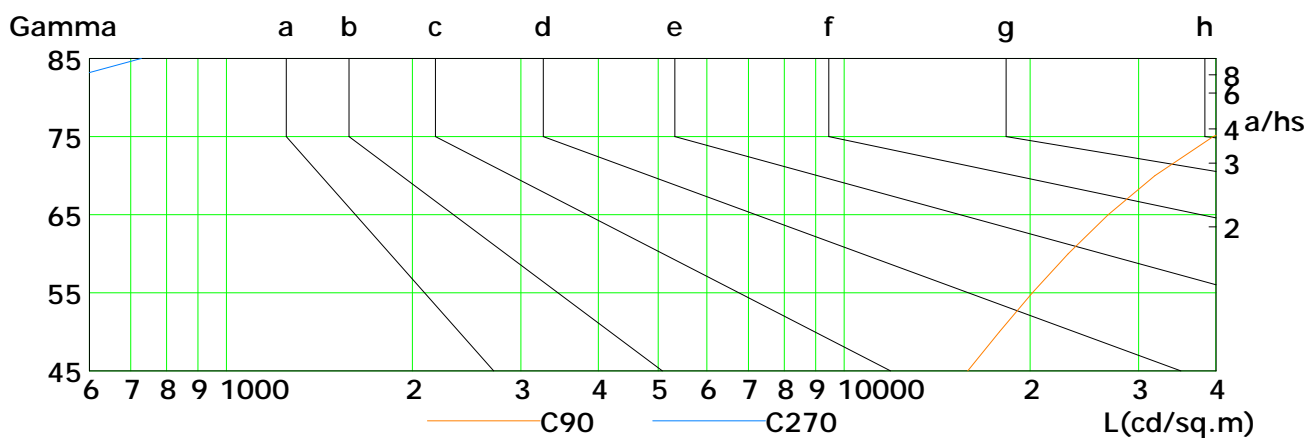
Humidity: 60%

Inspector:

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	2291	2032	1773	1497	1213	923	624	342	87
C90	15851	17840	20178	23065	26765	31849	39586	53168	84792
C180	2332	2081	1821	1551	1272	982	699	409	137
C270	48	64	84	100	138	194	273	425	729

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

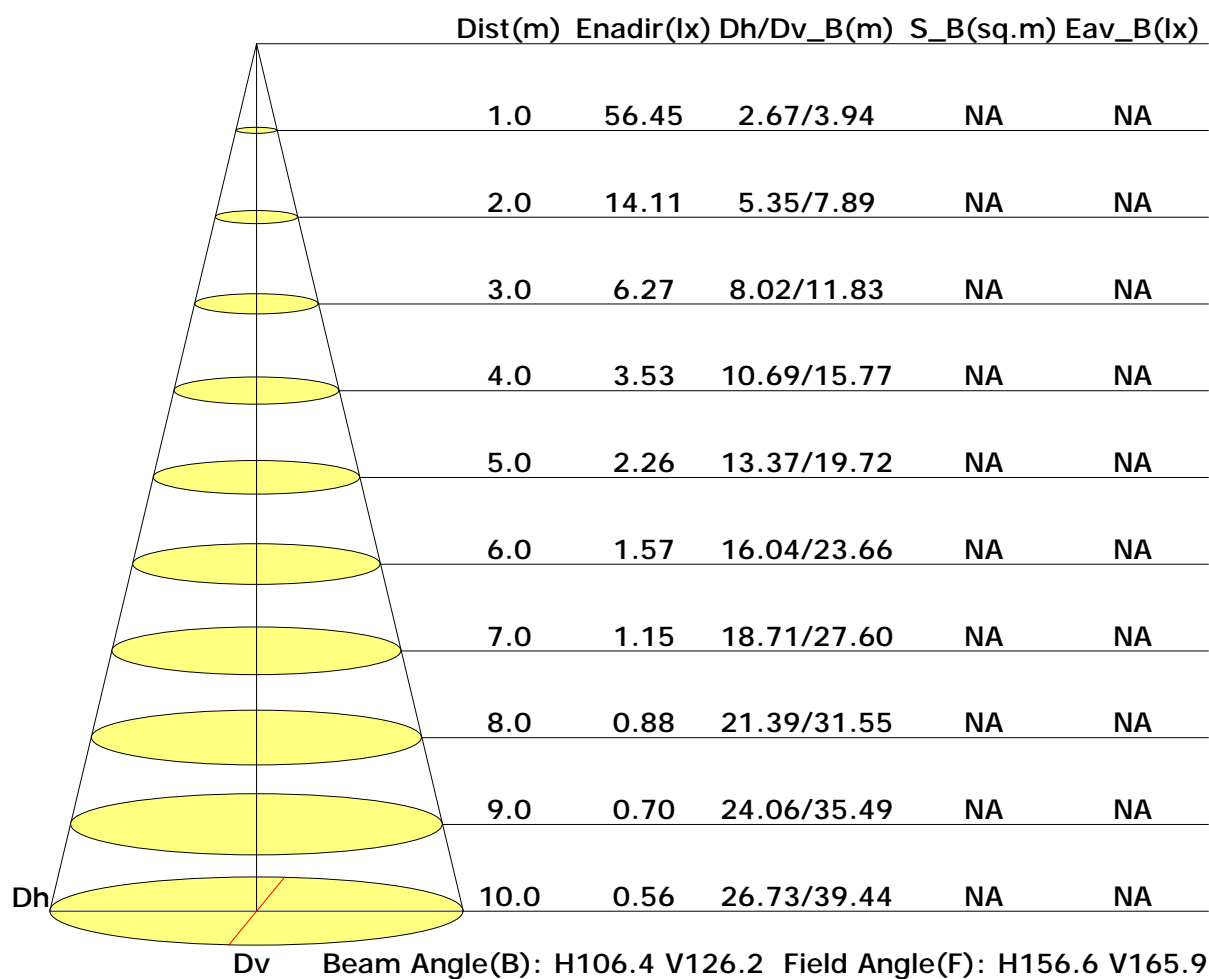
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Illuminance at a Distance



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

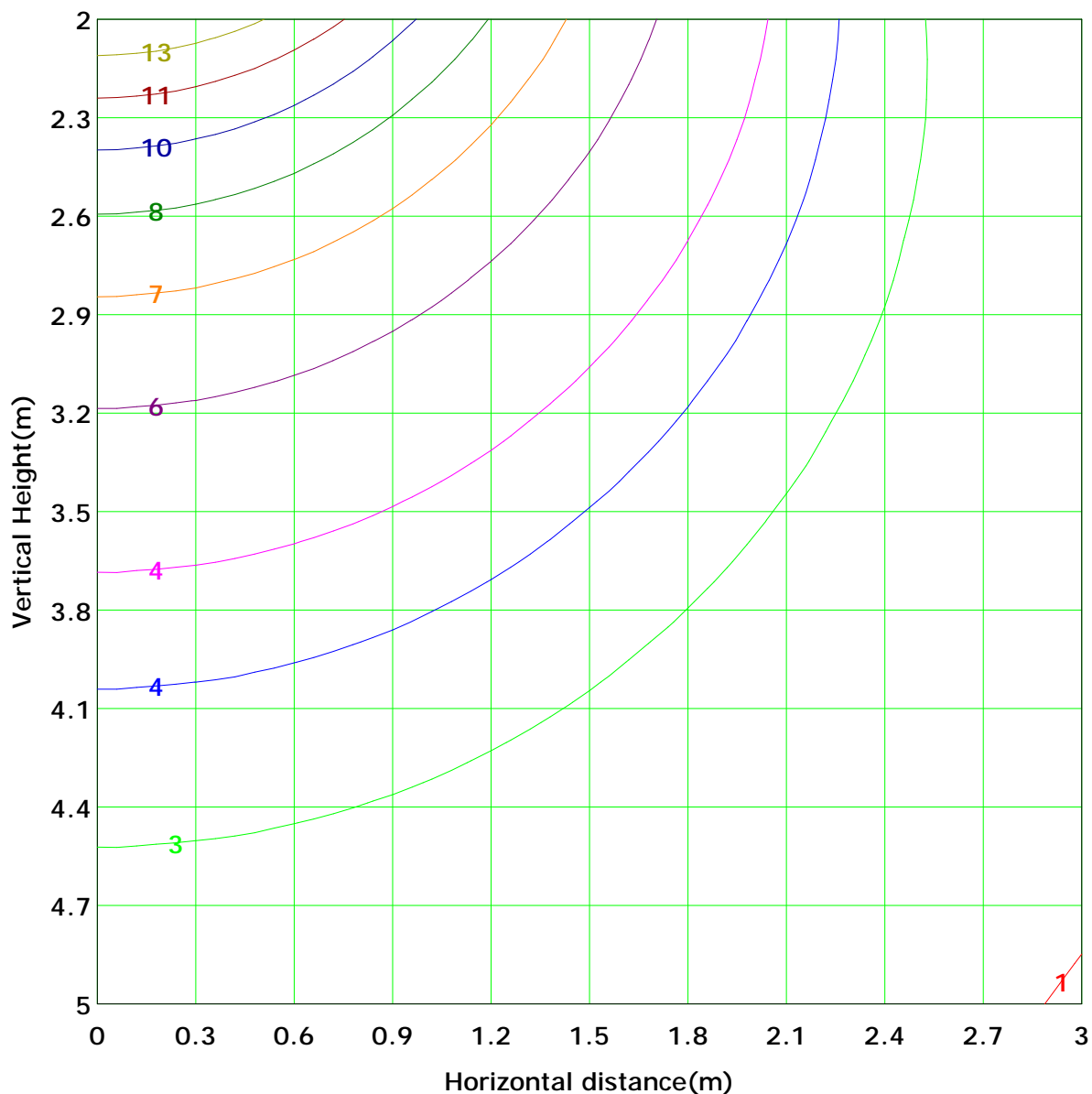
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 14.1 lx
(10%): 1.4 lx	(20%): 2.8 lx	
(25%): 3.5 lx	(30%): 4.2 lx	
(40%): 5.6 lx	(50%): 7.1 lx	
(60%): 8.5 lx	(70%): 9.9 lx	
(80%): 11.3 lx	(90%): 12.7 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

		Vertical plane																		Flux(T)		Flux(E)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80					90																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Horizontal plane	-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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0

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

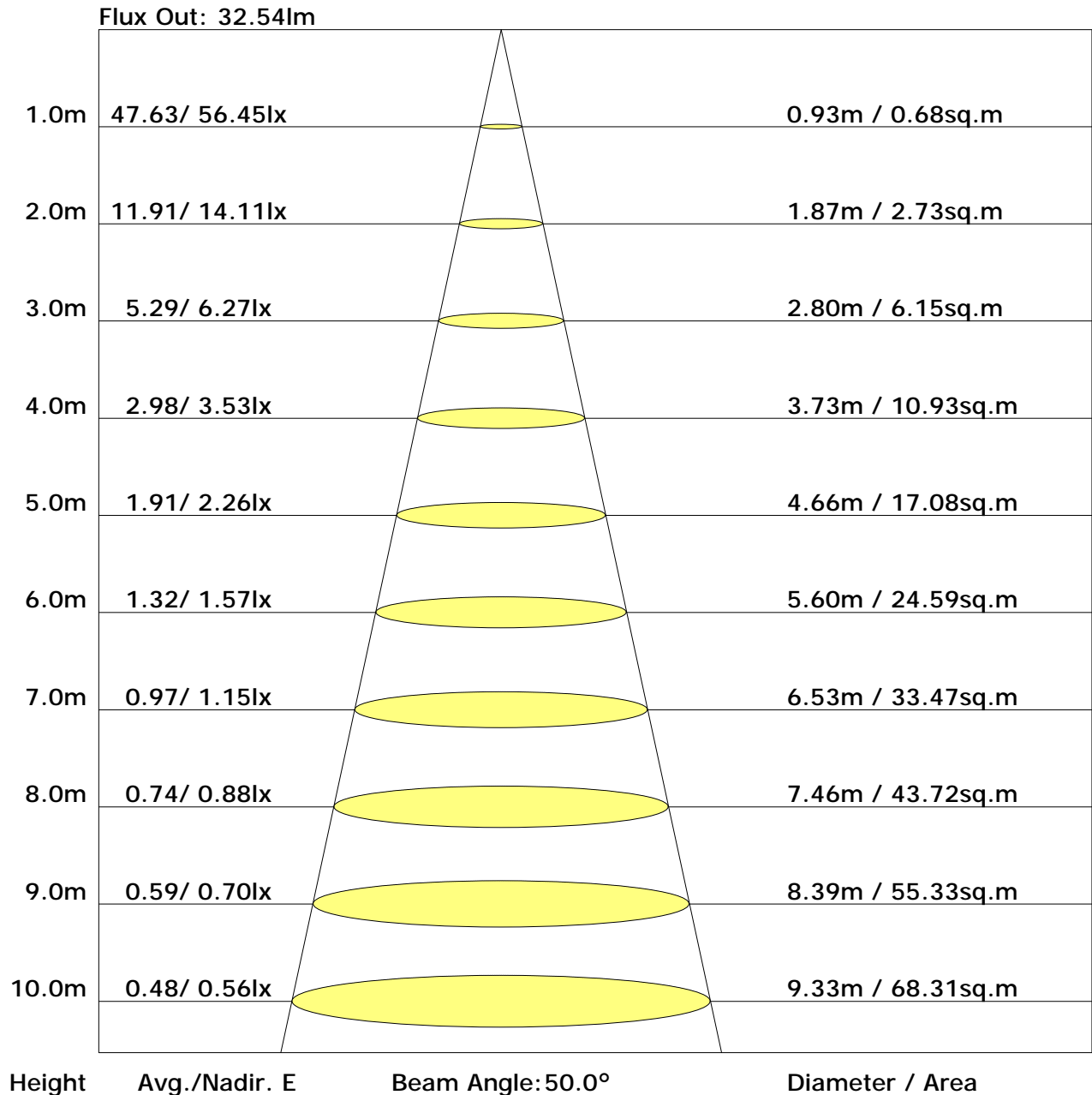
Distance: 9.028 m

Humidity: 60%

Inspector:



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	17.9	19.3	18.6	20.0	20.8	24.9	26.3	25.6	27.0	27.8
3H	19.6	20.8	20.3	21.6	22.4	27.9	29.1	28.6	29.8	30.7
4H	20.2	21.4	20.9	22.1	23.0	29.3	30.5	30.0	31.2	32.1
6H	20.6	21.7	21.3	22.4	23.3	30.7	31.8	31.4	32.5	33.4
8H	20.7	21.8	21.4	22.5	23.4	31.3	32.4	32.0	33.1	34.0
12H	20.8	21.8	21.5	22.5	23.4	31.9	33.0	32.7	33.7	34.6
X=4H Y=2H	19.9	21.1	20.6	21.8	22.6	25.4	26.6	26.1	27.3	28.2
3H	21.9	23.0	22.6	23.7	24.6	28.7	29.7	29.4	30.5	31.4
4H	22.8	23.8	23.5	24.5	25.4	30.3	31.3	31.0	32.0	32.9
6H	23.4	24.3	24.2	25.1	26.0	31.9	32.7	32.6	33.5	34.4
8H	23.6	24.5	24.4	25.2	26.2	32.6	33.5	33.4	34.2	35.2
12H	23.8	24.5	24.5	25.3	26.3	33.4	34.1	34.2	34.9	35.9
X=8H Y=4H	24.3	25.1	25.0	25.9	26.8	30.6	31.4	31.4	32.2	33.1
6H	25.2	26.0	26.0	26.8	27.7	32.4	33.2	33.2	34.0	34.9
8H	25.7	26.3	26.4	27.1	28.1	33.4	34.0	34.2	34.8	35.8
12H	26.0	26.6	26.8	27.4	28.4	34.3	34.9	35.1	35.7	36.7
X=12H Y=4H	24.7	25.4	25.4	26.2	27.1	30.6	31.4	31.4	32.2	33.1
6H	25.8	26.5	26.6	27.3	28.3	32.5	33.2	33.3	34.0	35.0
8H	26.4	27.0	27.2	27.8	28.8	33.6	34.1	34.3	34.9	35.9

Calculate in accordance with CIE 190:2010

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(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.75									
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	NA	0.52	0.59	0.64	0.71	0.76	0.80	0.85	0.89	
	0.30		NA	0.43	0.50	0.55	0.63	0.69	0.73	0.79	0.84	
	0.20		NA	0.37	0.44	0.49	0.57	0.63	0.68	0.74	0.79	
0.50	0.50	0.20	NA	0.47	0.53	0.58	0.64	0.69	0.72	0.77	0.80	
	0.30		NA	0.40	0.46	0.51	0.58	0.63	0.67	0.72	0.76	
	0.20		NA	0.35	0.40	0.45	0.53	0.58	0.62	0.68	0.72	
0.30	0.50	0.20	NA	0.43	0.48	0.52	0.58	0.62	0.65	0.69	0.72	
	0.30		NA	0.37	0.42	0.46	0.53	0.57	0.61	0.66	0.69	
	0.20		NA	0.32	0.37	0.42	0.48	0.53	0.57	0.62	0.66	
0.00	0.00	0.00	NA	0.27	0.31	0.35	0.41	0.45	0.48	0.53	0.56	
Rating:5W 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 = 1.75								
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	NA	0.92	0.81	0.72	0.60	0.52	0.46	0.37	0.31
	0.30		NA	0.79	0.71	0.64	0.54	0.48	0.42	0.35	0.30
	0.20		NA	0.69	0.63	0.57	0.50	0.44	0.39	0.33	0.28
0.50	0.50	0.20	NA	0.85	0.74	0.67	0.56	0.50	0.42	0.34	0.29
	0.30		NA	0.73	0.66	0.60	0.51	0.44	0.40	0.33	0.28
	0.20		NA	0.65	0.59	0.54	0.47	0.41	0.37	0.31	0.27
0.30	0.50	0.20	NA	0.78	0.69	0.61	0.51	0.44	0.39	0.32	0.27
	0.30		NA	0.69	0.61	0.56	0.47	0.41	0.37	0.31	0.26
	0.20		NA	0.61	0.56	0.51	0.44	0.39	0.35	0.29	0.25
0.00	0.00	0.00	0.77	0.50	0.45	0.42	0.36	0.32	0.29	0.24	0.21
Rating:5W 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 = 1.75								
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	NA	0.41	0.42	0.42	0.43	0.44	0.44	0.44	0.45
	0.30		NA	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41
	0.20		NA	0.28	0.29	0.31	0.32	0.34	0.35	0.36	0.38
0.50	0.50	0.20	NA	0.40	0.40	0.41	0.42	0.42	0.42	0.43	0.43
	0.30		NA	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.39
	0.20		NA	0.28	0.29	0.30	0.32	0.33	0.34	0.35	0.36
0.30	0.50	0.20	NA	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.41
	0.30		NA	0.32	0.33	0.34	0.35	0.36	0.37	0.37	0.38
	0.20		NA	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35
0.00	0.00	0.00	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Rating:5W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	57.0	0.1	0.1	0.01	0.01
1.0-2.0	56.9	0.2	0.2	0.04	0.06
2.0-3.0	56.9	0.3	0.5	0.07	0.13
3.0-4.0	56.9	0.4	0.9	0.10	0.23
4.0-5.0	56.9	0.5	1.4	0.13	0.35
5.0-6.0	56.8	0.6	2.0	0.16	0.51
6.0-7.0	56.7	0.7	2.7	0.18	0.69
7.0-8.0	56.7	0.8	3.5	0.21	0.90
8.0-9.0	56.6	0.9	4.4	0.24	1.14
9.0-10.0	56.5	1.0	5.4	0.27	1.41
10.0-11.0	56.4	1.1	6.5	0.29	1.70
11.0-12.0	56.2	1.2	7.8	0.32	2.02
12.0-13.0	56.1	1.3	9.1	0.35	2.37
13.0-14.0	55.9	1.4	10.5	0.37	2.74
14.0-15.0	55.8	1.5	12.1	0.40	3.14
15.0-16.0	55.6	1.6	13.7	0.42	3.57
16.0-17.0	55.5	1.7	15.4	0.45	4.02
17.0-18.0	55.3	1.8	17.2	0.47	4.49
18.0-19.0	55.1	1.9	19.2	0.50	4.99
19.0-20.0	54.9	2.0	21.2	0.52	5.51
20.0-21.0	54.7	2.1	23.3	0.55	6.06
21.0-22.0	54.4	2.2	25.5	0.57	6.63
22.0-23.0	54.2	2.3	27.7	0.59	7.22
23.0-24.0	54.0	2.4	30.1	0.61	7.84
24.0-25.0	53.7	2.4	32.5	0.64	8.48
25.0-26.0	53.5	2.5	35.1	0.66	9.13
26.0-27.0	53.2	2.6	37.7	0.68	9.81
27.0-28.0	52.9	2.7	40.3	0.70	10.51
28.0-29.0	52.7	2.8	43.1	0.72	11.23
29.0-30.0	52.5	2.8	45.9	0.74	11.97
30.0-31.0	52.4	2.9	48.9	0.76	12.72
31.0-32.0	52.3	3.0	51.8	0.78	13.50
32.0-33.0	52.2	3.1	54.9	0.80	14.31
33.0-34.0	52.3	3.2	58.1	0.82	15.13
34.0-35.0	52.3	3.2	61.3	0.85	15.98
35.0-36.0	52.3	3.3	64.7	0.87	16.84

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	52.3	3.4	68.1	0.89	17.73
37.0-38.0	52.3	3.5	71.6	0.91	18.64
38.0-39.0	52.3	3.6	75.1	0.93	19.57
39.0-40.0	52.2	3.6	78.8	0.95	20.52
40.0-41.0	52.2	3.7	82.5	0.97	21.49
41.0-42.0	52.1	3.8	86.3	0.99	22.48
42.0-43.0	52.0	3.8	90.1	1.00	23.48
43.0-44.0	51.8	3.9	94.1	1.02	24.50
44.0-45.0	51.7	4.0	98.0	1.04	25.53
45.0-46.0	51.6	4.0	102.1	1.05	26.58
46.0-47.0	51.4	4.1	106.2	1.07	27.65
47.0-48.0	51.3	4.2	110.3	1.08	28.73
48.0-49.0	51.3	4.2	114.5	1.10	29.83
49.0-50.0	51.2	4.3	118.8	1.11	30.94
50.0-51.0	51.1	4.3	123.1	1.13	32.06
51.0-52.0	51.0	4.4	127.5	1.14	33.20
52.0-53.0	50.8	4.4	131.9	1.15	34.36
53.0-54.0	50.7	4.5	136.4	1.16	35.52
54.0-55.0	50.5	4.5	140.9	1.17	36.69
55.0-56.0	50.3	4.5	145.4	1.18	37.88
56.0-57.0	50.1	4.6	150.0	1.19	39.07
57.0-58.0	49.8	4.6	154.6	1.20	40.27
58.0-59.0	49.6	4.6	159.2	1.21	41.48
59.0-60.0	49.3	4.7	163.9	1.21	42.69
60.0-61.0	49.0	4.7	168.6	1.22	43.91
61.0-62.0	48.6	4.7	173.3	1.22	45.13
62.0-63.0	48.3	4.7	178.0	1.22	46.35
63.0-64.0	47.9	4.7	182.7	1.22	47.58
64.0-65.0	47.5	4.7	187.4	1.22	48.80
65.0-66.0	47.1	4.7	192.1	1.22	50.02
66.0-67.0	46.6	4.7	196.7	1.22	51.24
67.0-68.0	46.2	4.7	201.4	1.22	52.46
68.0-69.0	45.7	4.7	206.1	1.21	53.68
69.0-70.0	45.2	4.6	210.7	1.21	54.89
70.0-71.0	44.7	4.6	215.3	1.20	56.09
71.0-72.0	44.2	4.6	219.9	1.20	57.29

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	43.6	4.6	224.5	1.19	58.47
73.0-74.0	43.0	4.5	229.0	1.18	59.65
74.0-75.0	42.5	4.5	233.5	1.17	60.82
75.0-76.0	41.9	4.4	238.0	1.16	61.98
76.0-77.0	41.3	4.4	242.4	1.15	63.13
77.0-78.0	40.6	4.4	246.7	1.13	64.26
78.0-79.0	40.0	4.3	251.0	1.12	65.38
79.0-80.0	39.4	4.2	255.2	1.11	66.48
80.0-81.0	38.7	4.2	259.4	1.09	67.57
81.0-82.0	38.0	4.1	263.6	1.07	68.65
82.0-83.0	37.4	4.1	267.6	1.06	69.71
83.0-84.0	36.7	4.0	271.6	1.04	70.75
84.0-85.0	36.0	3.9	275.6	1.02	71.77
85.0-86.0	35.4	3.9	279.4	1.01	72.78
86.0-87.0	34.7	3.8	283.2	0.99	73.77
87.0-88.0	34.1	3.7	287.0	0.97	74.75
88.0-89.0	33.5	3.7	290.6	0.96	75.70
89.0-90.0	33.0	3.6	294.3	0.94	76.65
90.0-91.0	32.4	3.6	297.8	0.93	77.57
91.0-92.0	31.8	3.5	301.3	0.91	78.48
92.0-93.0	31.3	3.4	304.7	0.89	79.37
93.0-94.0	30.7	3.4	308.1	0.88	80.25
94.0-95.0	30.1	3.3	311.4	0.86	81.11
95.0-96.0	29.5	3.2	314.6	0.84	81.94
96.0-97.0	28.9	3.2	317.8	0.82	82.76
97.0-98.0	28.3	3.1	320.8	0.80	83.57
98.0-99.0	27.7	3.0	323.8	0.78	84.35
99.0-100.0	27.1	2.9	326.8	0.76	85.11
100.0-101.0	26.5	2.9	329.6	0.74	85.85
101.0-102.0	25.8	2.8	332.4	0.72	86.58
102.0-103.0	25.2	2.7	335.1	0.70	87.28
103.0-104.0	24.6	2.6	337.7	0.68	87.96
104.0-105.0	23.9	2.5	340.2	0.66	88.62
105.0-106.0	23.3	2.5	342.7	0.64	89.26
106.0-107.0	22.6	2.4	345.1	0.62	89.88
107.0-108.0	22.0	2.3	347.4	0.60	90.48

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	21.4	2.2	349.6	0.58	91.06
109.0-110.0	20.7	2.1	351.8	0.56	91.62
110.0-111.0	20.1	2.1	353.8	0.54	92.16
111.0-112.0	19.4	2.0	355.8	0.52	92.67
112.0-113.0	18.7	1.9	357.7	0.49	93.17
113.0-114.0	18.1	1.8	359.5	0.47	93.64
114.0-115.0	17.4	1.7	361.2	0.45	94.09
115.0-116.0	16.8	1.7	362.9	0.43	94.52
116.0-117.0	16.1	1.6	364.5	0.41	94.94
117.0-118.0	15.5	1.5	366.0	0.39	95.33
118.0-119.0	14.8	1.4	367.4	0.37	95.70
119.0-120.0	14.2	1.4	368.8	0.35	96.05
120.0-121.0	13.5	1.3	370.0	0.33	96.38
121.0-122.0	12.9	1.2	371.2	0.31	96.70
122.0-123.0	12.2	1.1	372.4	0.29	96.99
123.0-124.0	11.6	1.1	373.4	0.28	97.27
124.0-125.0	10.9	1.0	374.4	0.26	97.53
125.0-126.0	10.3	0.9	375.3	0.24	97.77
126.0-127.0	9.7	0.9	376.2	0.22	97.99
127.0-128.0	9.1	0.8	377.0	0.21	98.19
128.0-129.0	8.5	0.7	377.7	0.19	98.38
129.0-130.0	7.9	0.7	378.4	0.17	98.56
130.0-131.0	7.4	0.6	379.0	0.16	98.72
131.0-132.0	6.9	0.6	379.6	0.15	98.87
132.0-133.0	6.5	0.5	380.1	0.14	99.00
133.0-134.0	6.0	0.5	380.6	0.12	99.13
134.0-135.0	5.6	0.4	381.0	0.11	99.24
135.0-136.0	5.1	0.4	381.4	0.10	99.34
136.0-137.0	4.6	0.4	381.8	0.09	99.43
137.0-138.0	4.2	0.3	382.1	0.08	99.52
138.0-139.0	3.8	0.3	382.3	0.07	99.59
139.0-140.0	3.3	0.2	382.6	0.06	99.65
140.0-141.0	2.9	0.2	382.8	0.05	99.70
141.0-142.0	2.5	0.2	382.9	0.04	99.75
142.0-143.0	2.0	0.1	383.1	0.04	99.78
143.0-144.0	1.7	0.1	383.2	0.03	99.81

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	1.3	0.1	383.3	0.02	99.83
145.0-146.0	1.0	0.1	383.3	0.02	99.85
146.0-147.0	0.8	0.0	383.4	0.01	99.86
147.0-148.0	0.7	0.0	383.4	0.01	99.87
148.0-149.0	0.6	0.0	383.5	0.01	99.88
149.0-150.0	0.5	0.0	383.5	0.01	99.89
150.0-151.0	0.5	0.0	383.5	0.01	99.89
151.0-152.0	0.5	0.0	383.5	0.01	99.90
152.0-153.0	0.5	0.0	383.6	0.01	99.91
153.0-154.0	0.5	0.0	383.6	0.01	99.92
154.0-155.0	0.5	0.0	383.6	0.01	99.92
155.0-156.0	0.5	0.0	383.6	0.01	99.93
156.0-157.0	0.5	0.0	383.7	0.01	99.93
157.0-158.0	0.5	0.0	383.7	0.01	99.94
158.0-159.0	0.5	0.0	383.7	0.01	99.94
159.0-160.0	0.5	0.0	383.7	0.01	99.95
160.0-161.0	0.5	0.0	383.7	0.00	99.95
161.0-162.0	0.5	0.0	383.8	0.00	99.96
162.0-163.0	0.5	0.0	383.8	0.00	99.96
163.0-164.0	0.5	0.0	383.8	0.00	99.97
164.0-165.0	0.5	0.0	383.8	0.00	99.97
165.0-166.0	0.5	0.0	383.8	0.00	99.98
166.0-167.0	0.5	0.0	383.8	0.00	99.98
167.0-168.0	0.5	0.0	383.9	0.00	99.98
168.0-169.0	0.5	0.0	383.9	0.00	99.98
169.0-170.0	0.5	0.0	383.9	0.00	99.99
170.0-171.0	0.5	0.0	383.9	0.00	99.99
171.0-172.0	0.5	0.0	383.9	0.00	99.99
172.0-173.0	0.5	0.0	383.9	0.00	99.99
173.0-174.0	0.5	0.0	383.9	0.00	100.00
174.0-175.0	0.5	0.0	383.9	0.00	100.00
175.0-176.0	0.5	0.0	383.9	0.00	100.00
176.0-177.0	0.5	0.0	383.9	0.00	100.00
177.0-178.0	0.5	0.0	383.9	0.00	100.00
178.0-179.0	0.5	0.0	383.9	0.00	100.00
179.0-180.0	0.5	0.0	383.9	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: