

Report No.:

Test Time: 2020/11/18 10:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Contour 3.0

Luminaire Description: RB90SWS2203.035-9N

Lamp Catalog: 9N-35

Number of Lamps: 160

Luminous Width (mm): 8

Voltage: 24.0 V

Power: 4.68 W

Lamp Description: 2835 3500K

Luminous Length (mm): 500

Luminous Height (mm): 12

Current: 0.195 A

Power Factor: 1.000

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 147.4 lm

Downward Ratio: 76%

Horizontal Diffuse Angle(10%,50%): H158.7,H107.5

Vertical Diffuse Angle(10%,50%): V274.5,V177.3

Luminaire Efficacy Rating (LER): 31

Max. Intensity: 37.94 cd

Total Rated Lamp Lumens: 147.4 lm

Efficiency: 100%

Upward Ratio: 24%

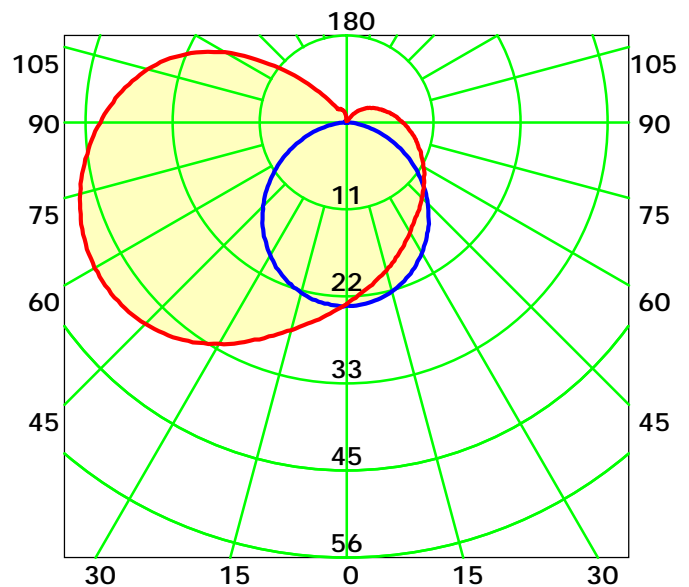
Central Intensity: 23.83 cd

Pos of Max. Intensity: H270 V56

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 142.4° 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

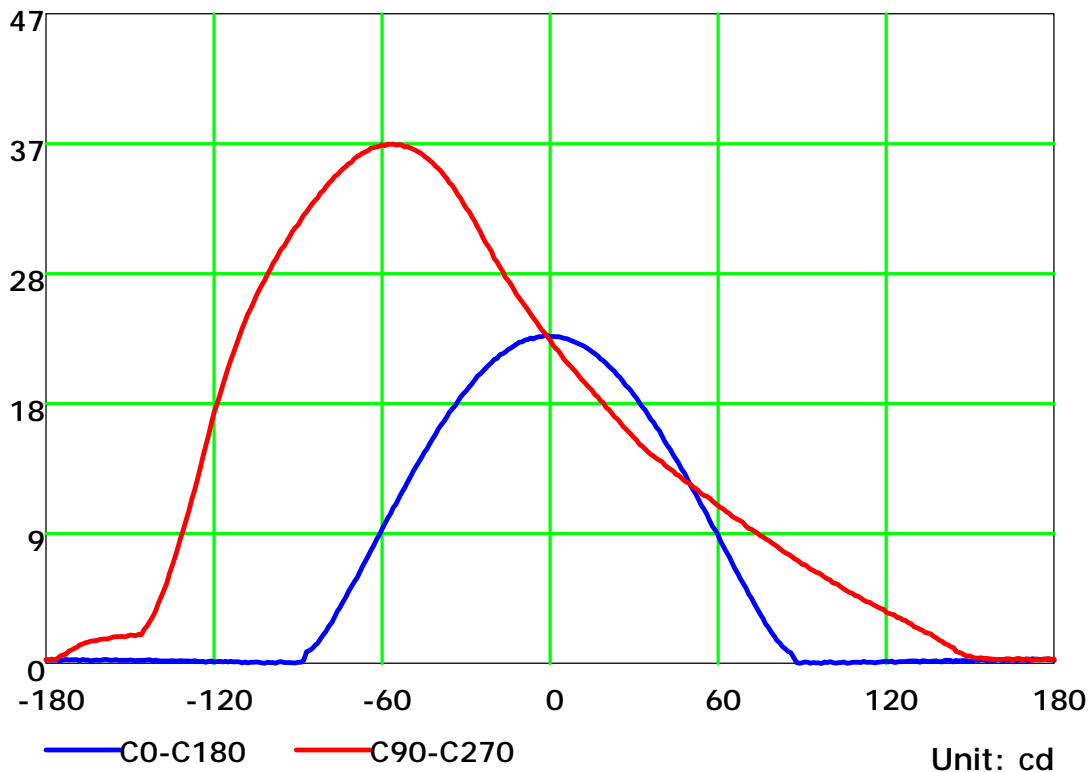
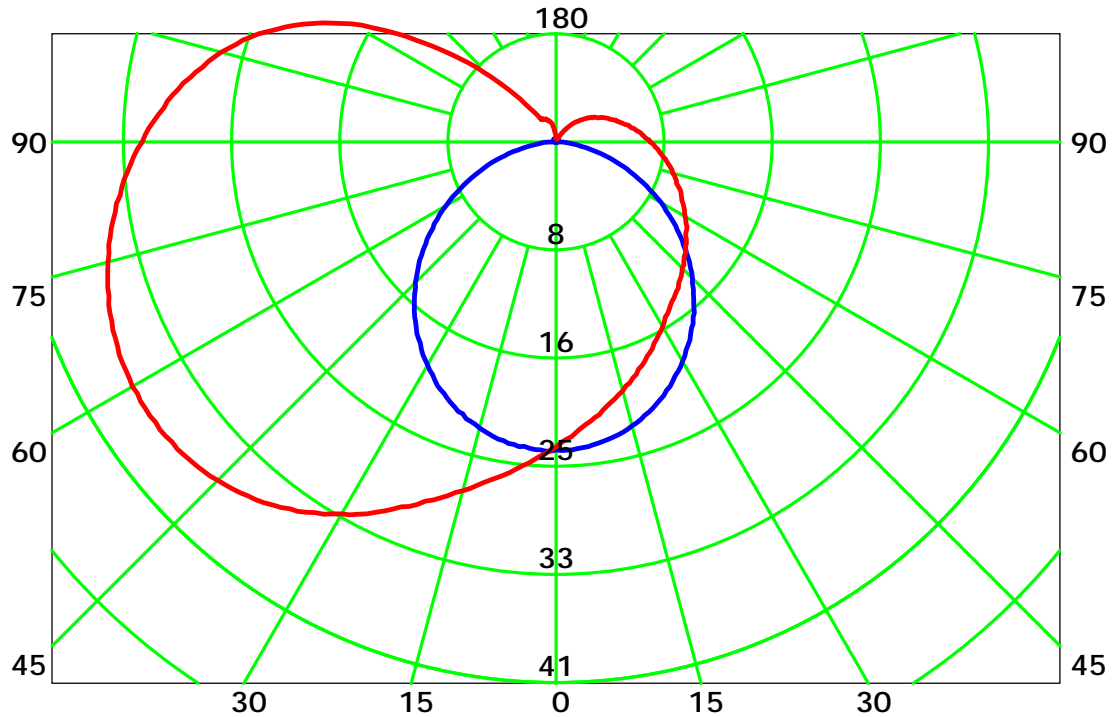
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

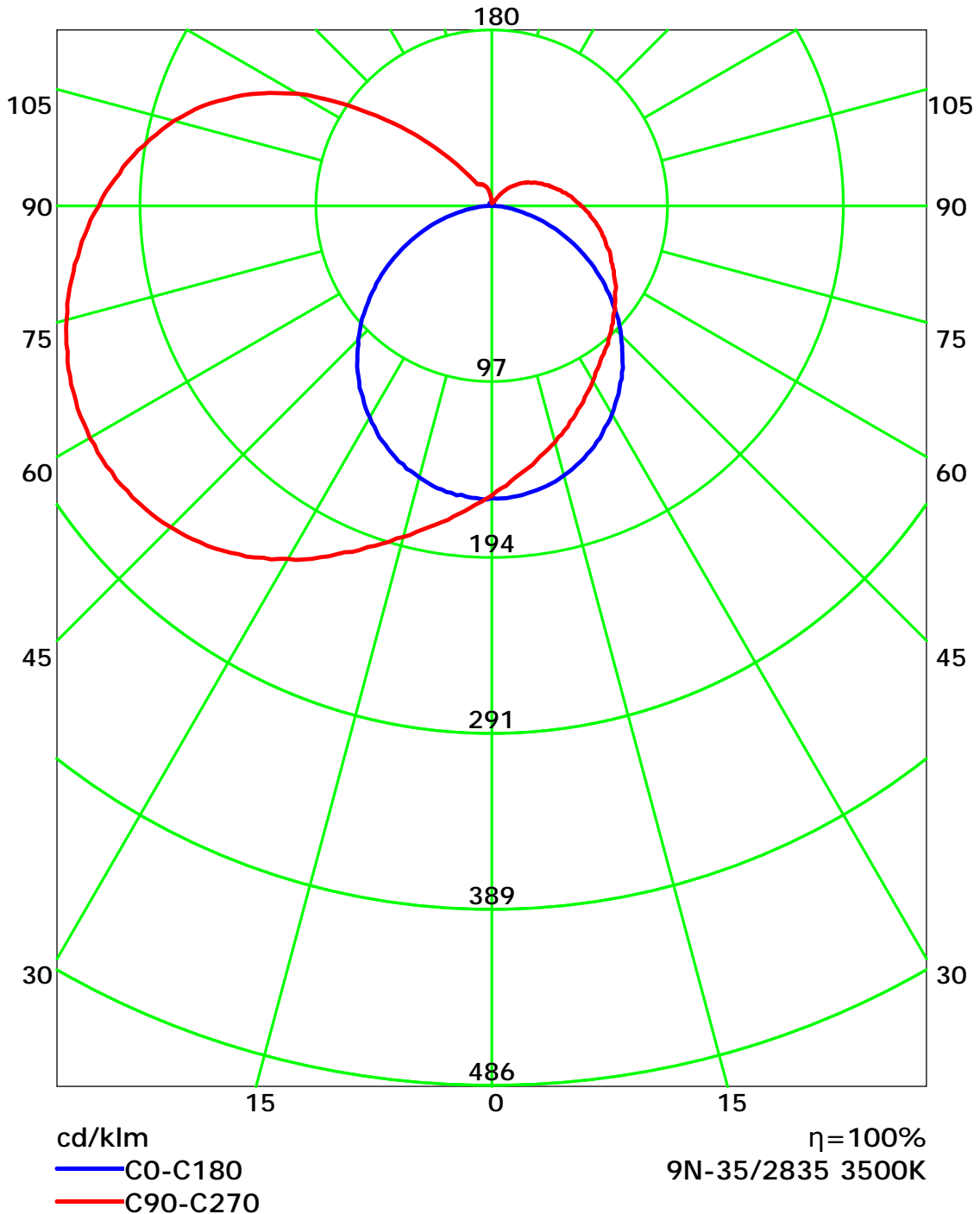
Luminous Intensity Distribution Curve



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:

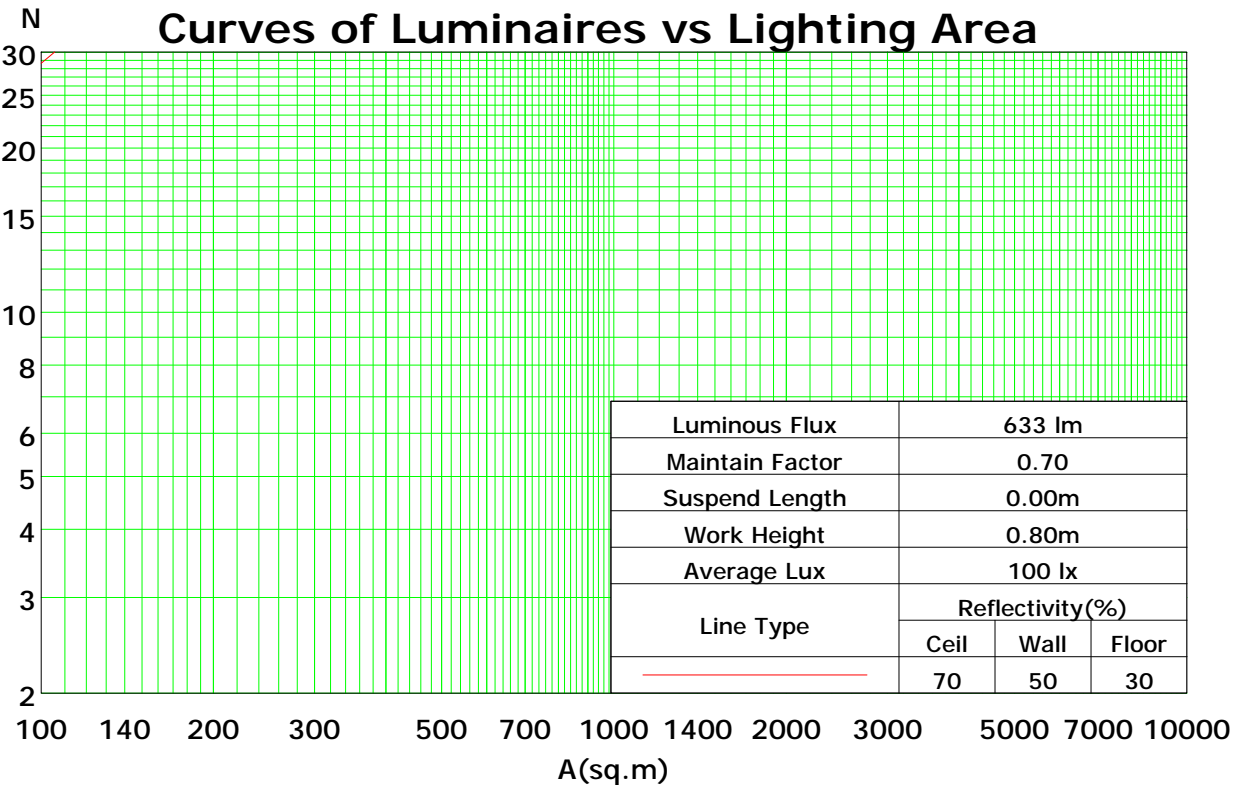
Coefficients Of Utilization - Zonal Cavity Method

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	80	80	80	76
1	99	93	87	82	94	88	83	78	79	75	71	71	68	65	64	61	59	55
2	89	79	70	63	83	75	67	61	67	61	56	60	55	51	54	50	46	43
3	80	68	58	51	75	64	56	49	58	51	45	52	46	41	46	42	38	34
4	72	59	49	42	68	56	47	40	51	43	37	45	39	34	41	35	31	28
5	66	52	43	35	62	50	41	34	45	37	31	40	34	29	36	31	26	24
6	61	47	37	30	57	44	36	29	40	33	27	36	30	25	32	27	23	20
7	56	42	33	26	53	40	31	25	36	29	23	33	26	22	29	24	20	18
8	52	38	29	23	49	36	28	22	33	26	21	30	24	19	27	22	18	15
9	49	35	26	20	46	33	25	20	30	23	18	27	21	17	25	20	16	14
10	45	32	24	18	43	30	23	18	28	21	16	25	19	15	23	18	14	12

Spacing Criteria (0-180): 1.23

Spacing Criteria (90-270): 1.63

Spacing Criteria (Diagonal): 1.59



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

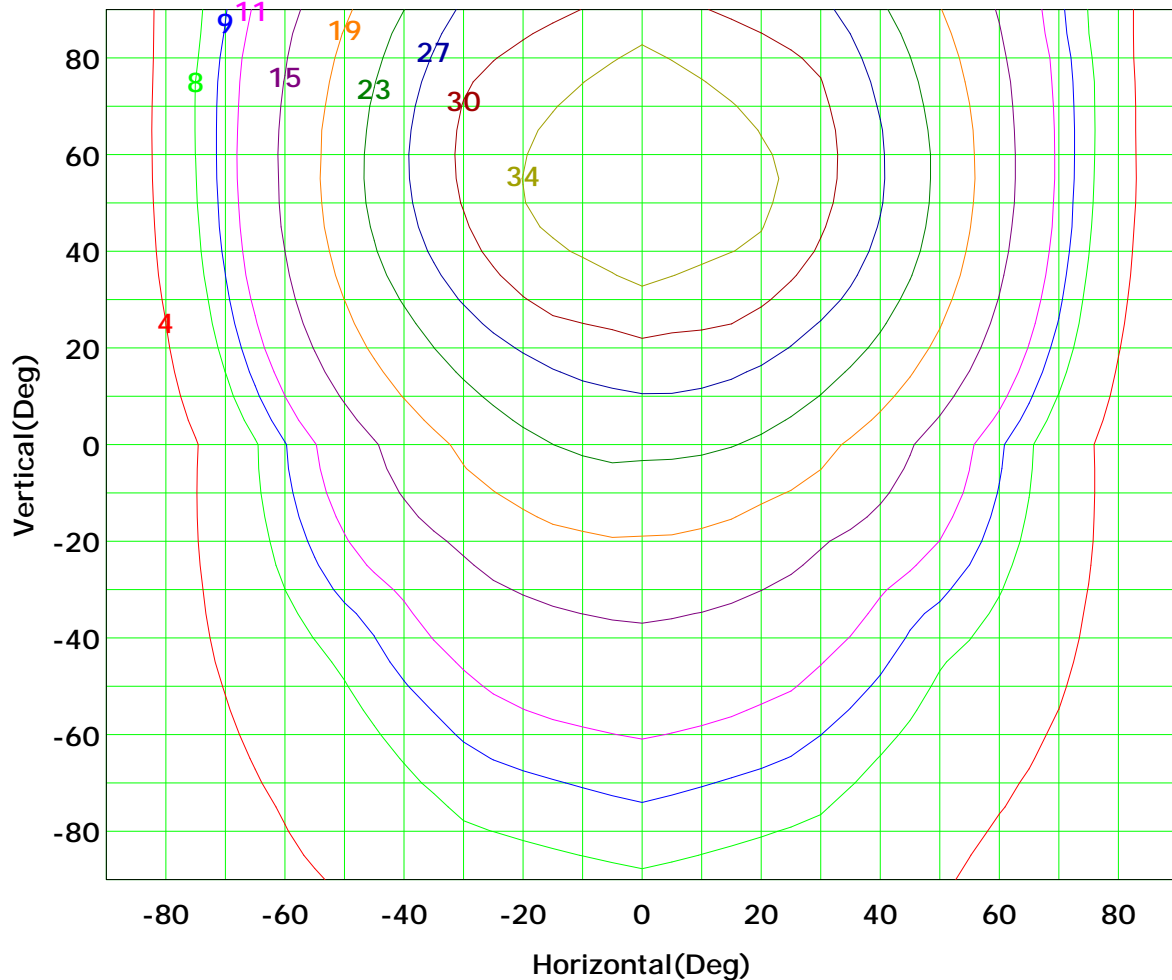
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 38 cd

(10%):	4 cd	(20%):	8 cd
(25%):	9 cd	(30%):	11 cd
(40%):	15 cd	(50%):	19 cd
(60%):	23 cd	(70%):	27 cd
(80%):	30 cd	(90%):	34 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

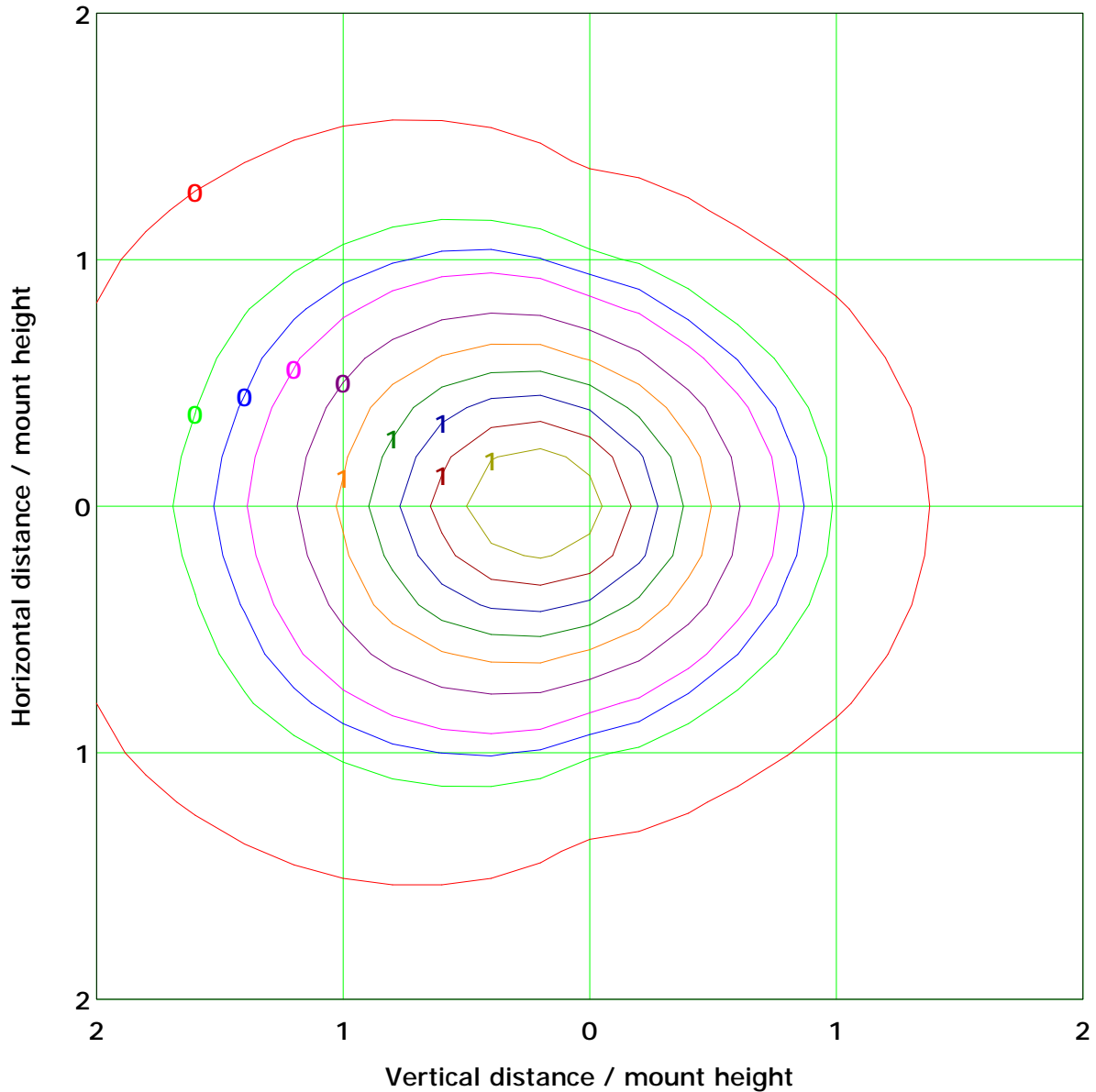
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 1.0 lx

(10%): 0.1 lx	(20%): 0.2 lx
(25%): 0.3 lx	(30%): 0.3 lx
(40%): 0.4 lx	(50%): 0.5 lx
(60%): 0.6 lx	(70%): 0.7 lx
(80%): 0.8 lx	(90%): 0.9 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

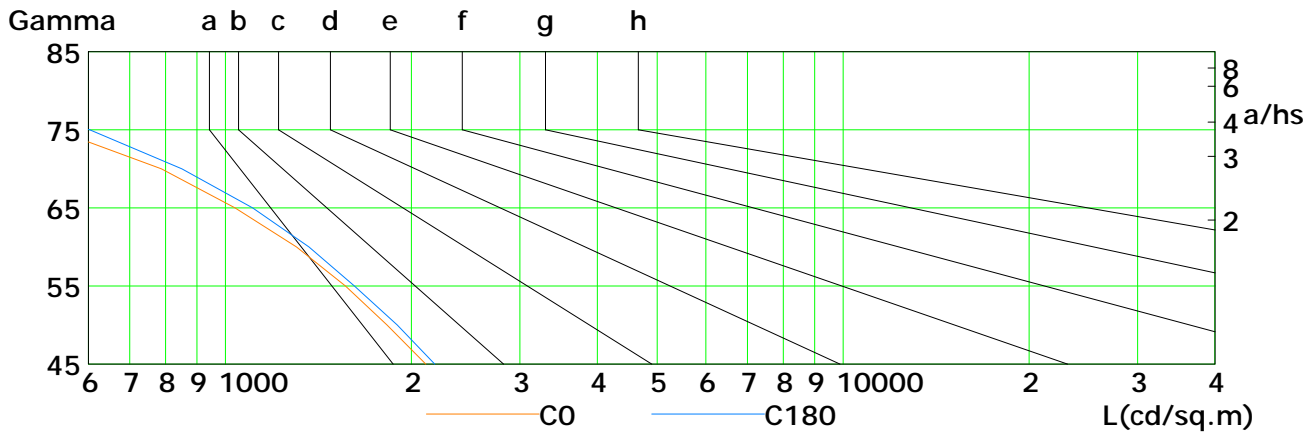
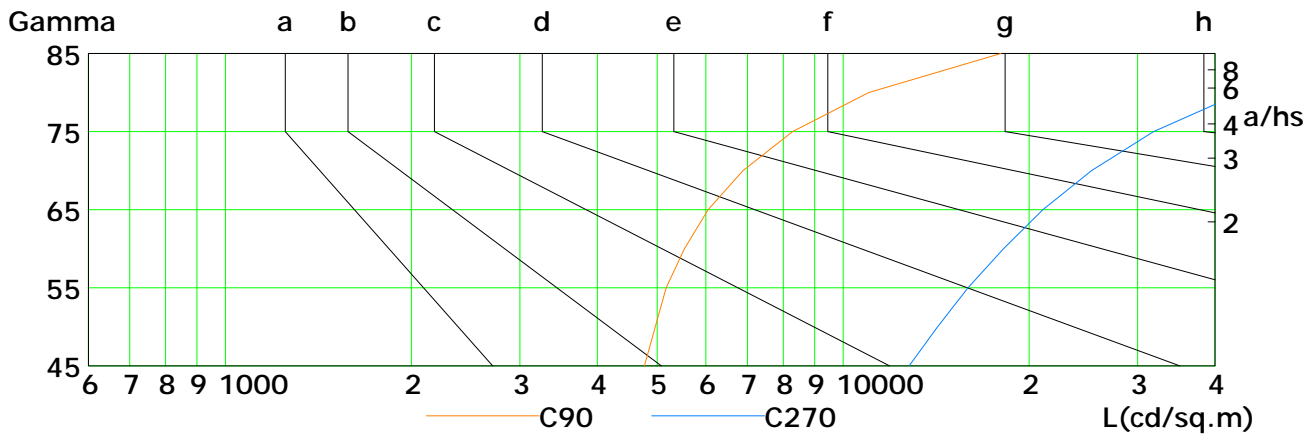
Humidity: 60%

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	2111	1828	1565	1303	1037	788	531	304	144
C90	4772	4968	5171	5535	6048	6885	8289	11012	18008
C180	2182	1897	1617	1366	1107	851	603	359	177
C270	12785	14232	15938	18179	21069	25262	31835	44112	75564

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

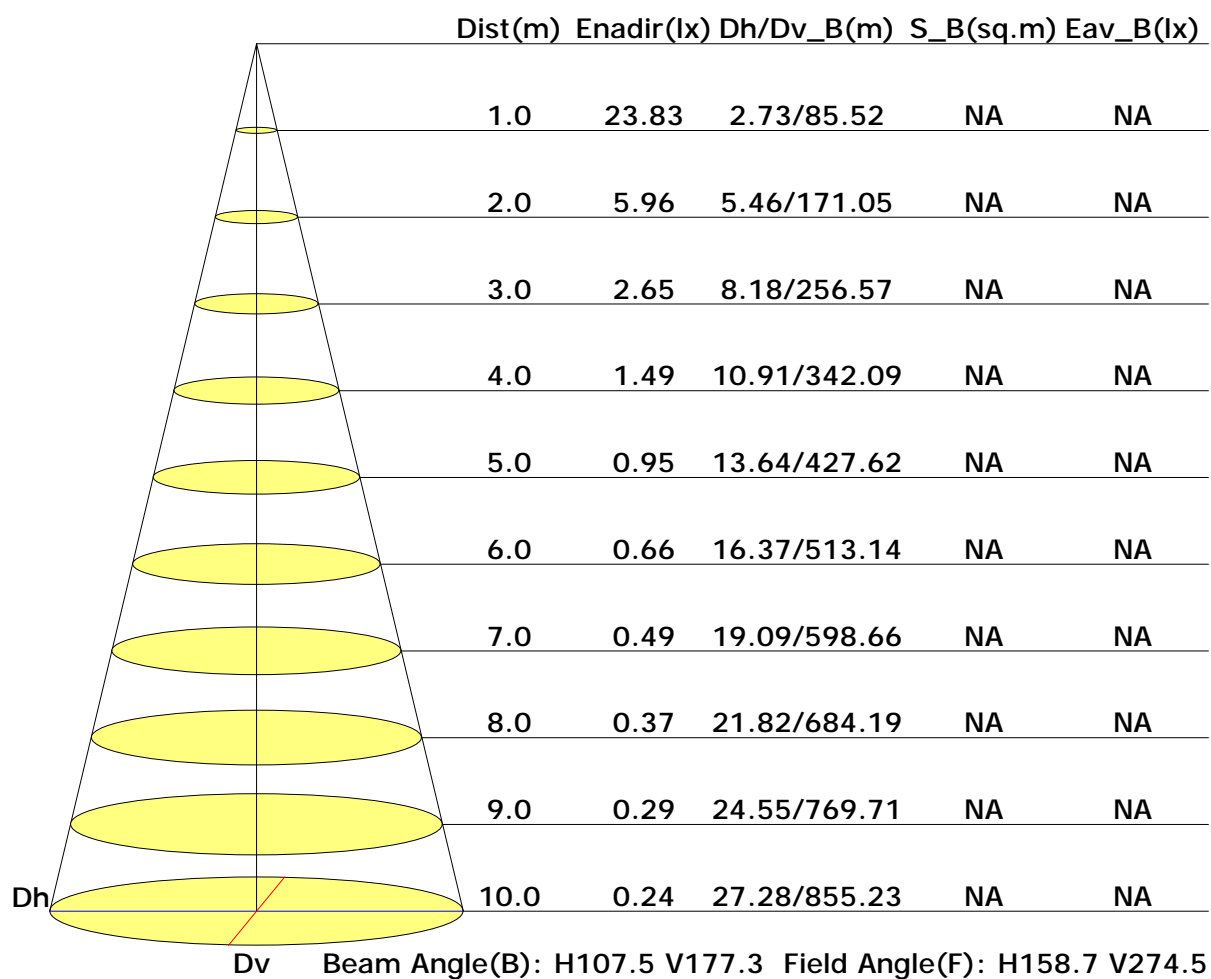
Test Device: GPM-1800B

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

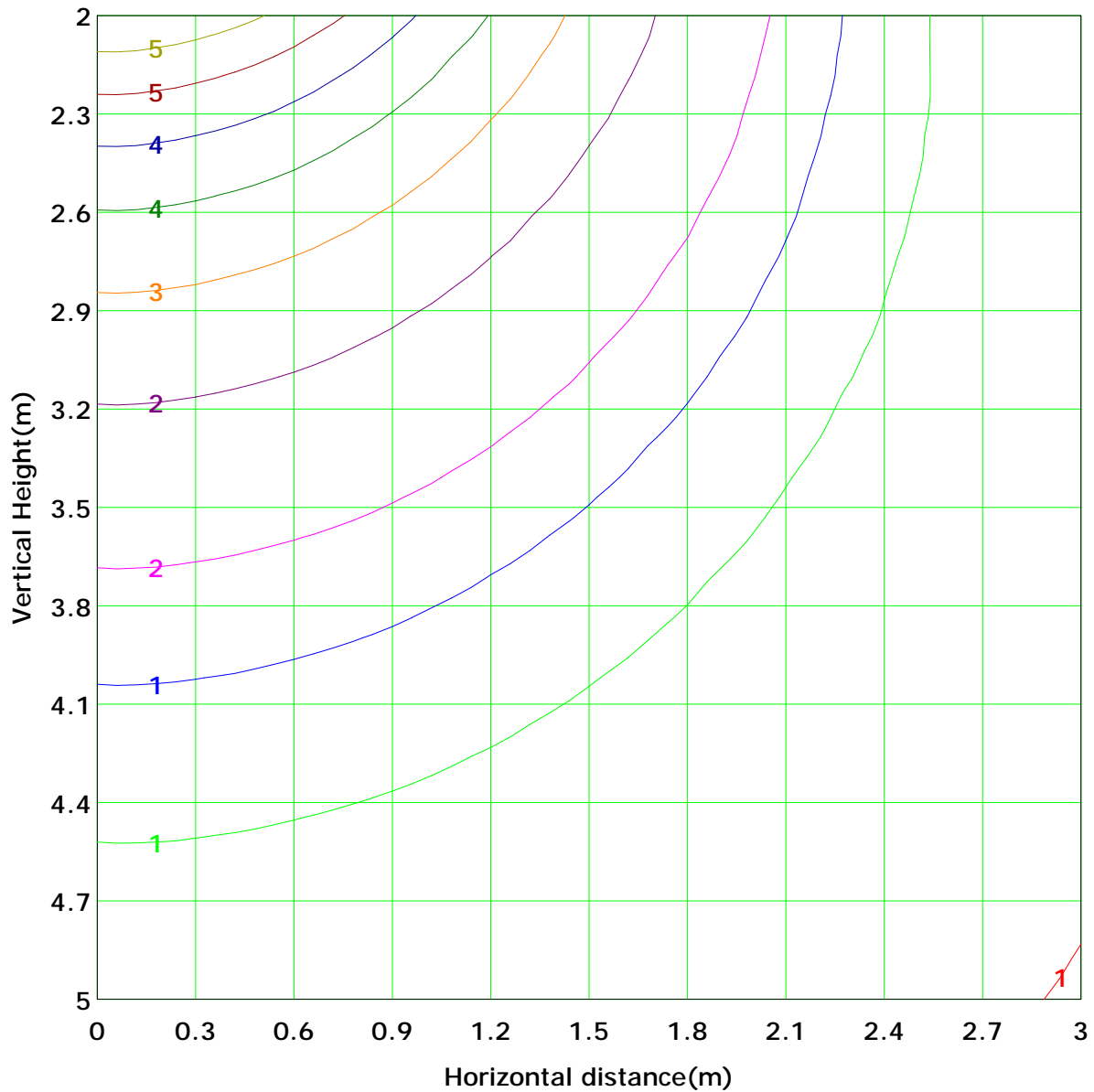
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 6.0 lx
(10%): 0.6 lx	(20%): 1.2 lx	
(25%): 1.5 lx	(30%): 1.8 lx	
(40%): 2.4 lx	(50%): 3.0 lx	
(60%): 3.6 lx	(70%): 4.2 lx	
(80%): 4.8 lx	(90%): 5.4 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

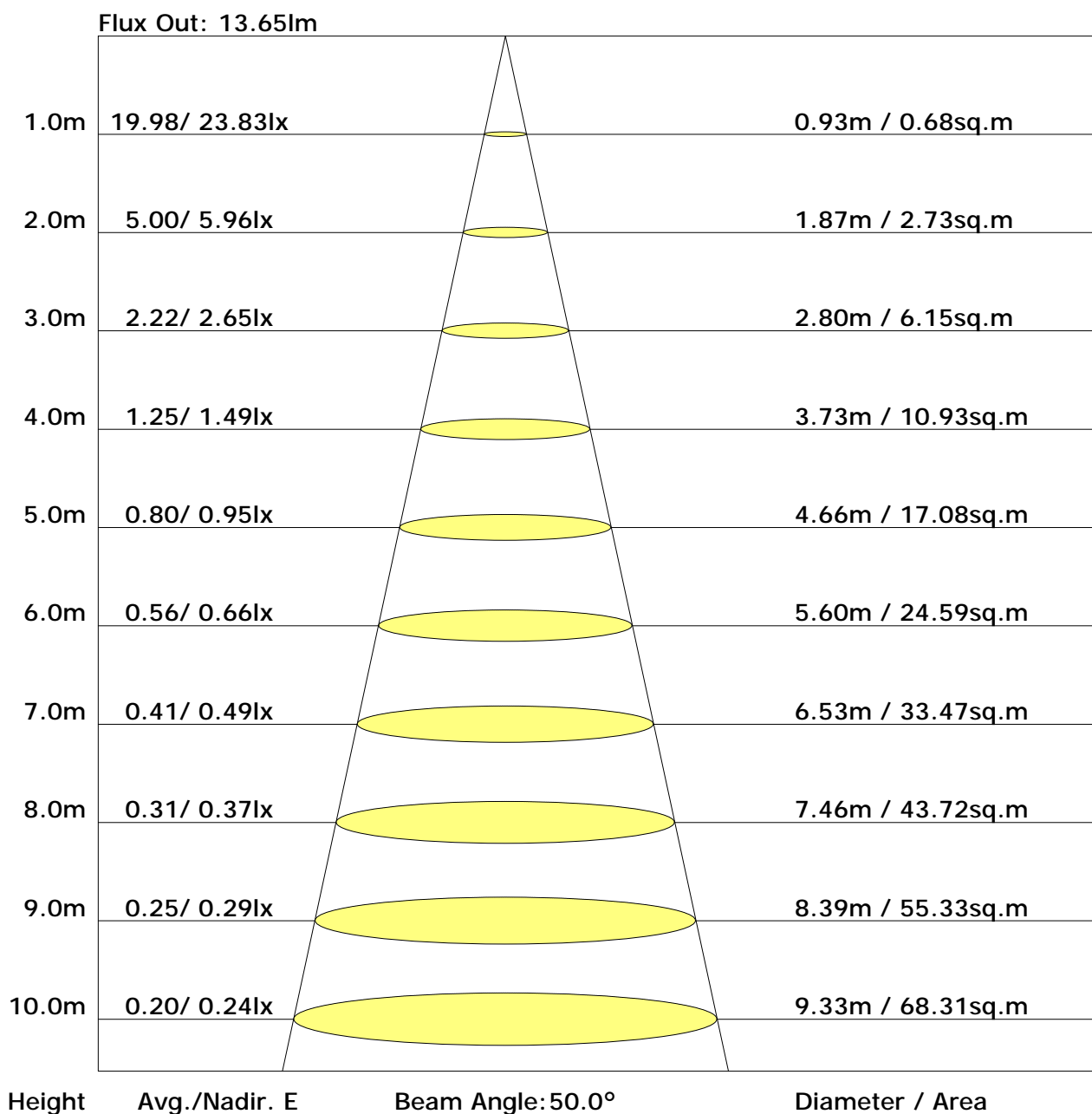
Unit: lm

		Vertical plane																		
Flux(E)	Flux(T)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
		0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.9	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.3	0.2	0.1	0.0
0.0	0.1	0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.9	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.3	0.2	0.1	0.0
0.1	0.8	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
0.8	2.1	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
2.1	3.9	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
3.9	6.1	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
6.1	8.4	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
8.4	10.5	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
10.5	12.0	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
12.0	12.8	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
12.8	12.8	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
12.8	11.9	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
11.9	10.4	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
10.4	8.2	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
8.2	5.9	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
5.9	3.8	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
3.8	1.9	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
1.9	0.6	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
0.6	0.0	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
0.0	0.1	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
0.1	112	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	0.0
112		0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.6	0.5	0.3	0.2	0.1	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



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:

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	20.4	21.8	21.1	22.5	23.3	17.0	18.3	17.7	19.0	19.9
3H	22.3	23.5	23.0	24.2	25.1	19.2	20.5	19.9	21.2	22.0
4H	23.0	24.1	23.7	24.9	25.7	20.3	21.4	21.0	22.2	23.0
6H	23.5	24.6	24.2	25.3	26.2	21.3	22.4	22.0	23.1	24.0
8H	23.6	24.7	24.3	25.4	26.3	21.8	22.8	22.5	23.6	24.5
12H	23.7	24.7	24.5	25.5	26.4	22.2	23.2	23.0	24.0	24.9
X=4H Y=2H	21.6	22.8	22.3	23.5	24.4	17.6	18.7	18.3	19.4	20.3
3H	23.8	24.8	24.5	25.6	26.4	20.1	21.1	20.8	21.8	22.7
4H	24.7	25.6	25.4	26.4	27.3	21.3	22.2	22.0	23.0	23.9
6H	25.4	26.3	26.2	27.0	28.0	22.5	23.3	23.2	24.1	25.0
8H	25.7	26.5	26.4	27.3	28.2	23.1	23.8	23.8	24.6	25.6
12H	25.9	26.6	26.7	27.4	28.4	23.6	24.3	24.4	25.1	26.1
X=8H Y=4H	25.7	26.5	26.4	27.2	28.2	21.6	22.4	22.4	23.2	24.1
6H	26.7	27.4	27.5	28.2	29.2	23.0	23.7	23.8	24.5	25.5
8H	27.2	27.8	28.0	28.6	29.6	23.8	24.4	24.6	25.2	26.2
12H	27.6	28.1	28.4	28.9	29.9	24.5	25.1	25.3	25.9	26.9
X=12H Y=4H	25.9	26.7	26.7	27.5	28.4	21.7	22.4	22.4	23.2	24.1
6H	27.1	27.8	27.9	28.6	29.5	23.1	23.8	23.9	24.6	25.6
8H	27.7	28.3	28.5	29.1	30.1	23.9	24.5	24.7	25.3	26.3

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 = 1.50								
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	0.45	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.89
	0.30		0.36	0.44	0.51	0.56	0.64	0.70	0.74	0.80	0.84
	0.20		0.31	0.37	0.44	0.50	0.58	0.64	0.68	0.75	0.80
0.50	0.50	0.20	0.41	0.48	0.54	0.58	0.65	0.69	0.73	0.77	0.80
	0.30		0.34	0.40	0.47	0.52	0.59	0.64	0.67	0.73	0.77
	0.20		0.29	0.35	0.41	0.46	0.53	0.59	0.63	0.69	0.73
0.30	0.50	0.20	0.37	0.43	0.49	0.53	0.58	0.62	0.65	0.70	0.73
	0.30		0.31	0.37	0.43	0.47	0.53	0.58	0.61	0.66	0.69
	0.20		0.27	0.32	0.38	0.43	0.49	0.54	0.58	0.63	0.66
0.00	0.00	0.00	0.22	0.27	0.32	0.36	0.42	0.46	0.49	0.53	0.57
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 = 1.50								
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	1.05	0.91	0.80	0.71	0.59	0.51	0.45	0.36	0.30
	0.30		0.87	0.78	0.69	0.63	0.54	0.47	0.41	0.34	0.29
	0.20		0.75	0.68	0.62	0.57	0.49	0.43	0.39	0.32	0.28
0.50	0.50	0.20	0.96	0.84	0.73	0.66	0.55	0.49	0.41	0.33	0.28
	0.30		0.81	0.73	0.65	0.59	0.50	0.43	0.39	0.32	0.27
	0.20		0.71	0.64	0.58	0.53	0.46	0.40	0.36	0.30	0.26
0.30	0.50	0.20	0.89	0.77	0.67	0.60	0.50	0.43	0.38	0.31	0.26
	0.30		0.76	0.68	0.60	0.55	0.46	0.40	0.36	0.30	0.25
	0.20		0.66	0.61	0.54	0.50	0.43	0.38	0.34	0.28	0.24
0.00	0.00	0.00	0.54	0.49	0.44	0.40	0.35	0.31	0.28	0.23	0.20
<p>Rating:5W 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 = 1.50								
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	0.40	0.41	0.42	0.43	0.44	0.44	0.44	0.45	0.45
	0.30		0.33	0.34	0.35	0.36	0.38	0.39	0.39	0.41	0.41
	0.20		0.27	0.29	0.30	0.31	0.33	0.34	0.35	0.37	0.38
0.50	0.50	0.20	0.38	0.40	0.41	0.41	0.42	0.42	0.43	0.43	0.43
	0.30		0.32	0.33	0.34	0.35	0.37	0.37	0.38	0.39	0.40
	0.20		0.27	0.28	0.30	0.30	0.32	0.33	0.34	0.36	0.37
0.30	0.50	0.20	0.37	0.38	0.39	0.40	0.40	0.41	0.41	0.41	0.41
	0.30		0.31	0.33	0.34	0.34	0.35	0.36	0.37	0.38	0.38
	0.20		0.27	0.28	0.29	0.30	0.31	0.33	0.33	0.35	0.36
0.00	0.00	0.00	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
<p>Rating:5W 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>											

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	23.7	0.0	0.0	0.02	0.02
1.0-2.0	23.6	0.1	0.1	0.05	0.06
2.0-3.0	23.6	0.1	0.2	0.08	0.14
3.0-4.0	23.6	0.2	0.4	0.11	0.25
4.0-5.0	23.6	0.2	0.6	0.14	0.38
5.0-6.0	23.6	0.2	0.8	0.17	0.55
6.0-7.0	23.6	0.3	1.1	0.20	0.75
7.0-8.0	23.6	0.3	1.4	0.23	0.98
8.0-9.0	23.5	0.4	1.8	0.26	1.24
9.0-10.0	23.5	0.4	2.3	0.29	1.53
10.0-11.0	23.5	0.5	2.7	0.32	1.85
11.0-12.0	23.5	0.5	3.2	0.35	2.19
12.0-13.0	23.4	0.6	3.8	0.38	2.57
13.0-14.0	23.4	0.6	4.4	0.41	2.98
14.0-15.0	23.3	0.6	5.0	0.43	3.41
15.0-16.0	23.3	0.7	5.7	0.46	3.87
16.0-17.0	23.2	0.7	6.4	0.49	4.37
17.0-18.0	23.2	0.8	7.2	0.52	4.88
18.0-19.0	23.1	0.8	8.0	0.55	5.43
19.0-20.0	23.1	0.8	8.8	0.57	6.00
20.0-21.0	23.0	0.9	9.7	0.60	6.60
21.0-22.0	23.0	0.9	10.7	0.63	7.23
22.0-23.0	22.9	1.0	11.6	0.65	7.88
23.0-24.0	22.8	1.0	12.6	0.68	8.56
24.0-25.0	22.8	1.0	13.7	0.70	9.26
25.0-26.0	22.7	1.1	14.7	0.73	9.99
26.0-27.0	22.6	1.1	15.8	0.75	10.74
27.0-28.0	22.5	1.1	17.0	0.77	11.52
28.0-29.0	22.5	1.2	18.1	0.80	12.31
29.0-30.0	22.4	1.2	19.4	0.82	13.13
30.0-31.0	22.3	1.2	20.6	0.84	13.98
31.0-32.0	22.2	1.3	21.9	0.86	14.84
32.0-33.0	22.1	1.3	23.2	0.88	15.72
33.0-34.0	22.0	1.3	24.5	0.90	16.62
34.0-35.0	21.9	1.4	25.9	0.92	17.55
35.0-36.0	21.8	1.4	27.2	0.94	18.49

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	21.7	1.4	28.7	0.96	19.45
37.0-38.0	21.6	1.4	30.1	0.98	20.42
38.0-39.0	21.5	1.5	31.6	0.99	21.42
39.0-40.0	21.3	1.5	33.1	1.01	22.43
40.0-41.0	21.2	1.5	34.6	1.03	23.45
41.0-42.0	21.1	1.5	36.1	1.04	24.49
42.0-43.0	21.0	1.6	37.7	1.05	25.55
43.0-44.0	20.8	1.6	39.2	1.07	26.62
44.0-45.0	20.7	1.6	40.8	1.08	27.70
45.0-46.0	20.5	1.6	42.4	1.09	28.79
46.0-47.0	20.4	1.6	44.0	1.10	29.89
47.0-48.0	20.2	1.6	45.7	1.11	31.00
48.0-49.0	20.1	1.7	47.3	1.12	32.12
49.0-50.0	19.9	1.7	49.0	1.13	33.24
50.0-51.0	19.8	1.7	50.7	1.13	34.38
51.0-52.0	19.6	1.7	52.3	1.14	35.52
52.0-53.0	19.4	1.7	54.0	1.15	36.66
53.0-54.0	19.2	1.7	55.7	1.15	37.82
54.0-55.0	19.1	1.7	57.4	1.15	38.97
55.0-56.0	18.9	1.7	59.1	1.16	40.13
56.0-57.0	18.7	1.7	60.9	1.16	41.29
57.0-58.0	18.5	1.7	62.6	1.16	42.45
58.0-59.0	18.3	1.7	64.3	1.16	43.61
59.0-60.0	18.1	1.7	66.0	1.16	44.78
60.0-61.0	17.9	1.7	67.7	1.16	45.94
61.0-62.0	17.7	1.7	69.4	1.16	47.10
62.0-63.0	17.5	1.7	71.1	1.16	48.26
63.0-64.0	17.3	1.7	72.8	1.15	49.41
64.0-65.0	17.1	1.7	74.5	1.15	50.56
65.0-66.0	16.9	1.7	76.2	1.14	51.70
66.0-67.0	16.7	1.7	77.9	1.14	52.84
67.0-68.0	16.5	1.7	79.5	1.13	53.97
68.0-69.0	16.3	1.7	81.2	1.13	55.10
69.0-70.0	16.0	1.6	82.9	1.12	56.22
70.0-71.0	15.8	1.6	84.5	1.11	57.33
71.0-72.0	15.6	1.6	86.1	1.10	58.43

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	15.4	1.6	87.7	1.09	59.52
73.0-74.0	15.2	1.6	89.3	1.08	60.60
74.0-75.0	15.0	1.6	90.9	1.07	61.68
75.0-76.0	14.7	1.6	92.5	1.06	62.74
76.0-77.0	14.5	1.5	94.0	1.05	63.79
77.0-78.0	14.3	1.5	95.5	1.04	64.82
78.0-79.0	14.1	1.5	97.0	1.03	65.85
79.0-80.0	13.9	1.5	98.5	1.01	66.86
80.0-81.0	13.6	1.5	100.0	1.00	67.87
81.0-82.0	13.4	1.5	101.5	0.99	68.85
82.0-83.0	13.2	1.4	102.9	0.98	69.83
83.0-84.0	13.0	1.4	104.3	0.96	70.80
84.0-85.0	12.8	1.4	105.7	0.95	71.75
85.0-86.0	12.7	1.4	107.1	0.94	72.69
86.0-87.0	12.5	1.4	108.5	0.93	73.61
87.0-88.0	12.3	1.3	109.8	0.91	74.52
88.0-89.0	12.0	1.3	111.2	0.90	75.42
89.0-90.0	11.9	1.3	112.5	0.88	76.30
90.0-91.0	11.7	1.3	113.7	0.87	77.17
91.0-92.0	11.6	1.3	115.0	0.86	78.03
92.0-93.0	11.4	1.3	116.3	0.85	78.88
93.0-94.0	11.3	1.2	117.5	0.84	79.72
94.0-95.0	11.1	1.2	118.7	0.82	80.54
95.0-96.0	11.0	1.2	119.9	0.81	81.35
96.0-97.0	10.8	1.2	121.1	0.80	82.15
97.0-98.0	10.6	1.2	122.2	0.78	82.94
98.0-99.0	10.4	1.1	123.4	0.77	83.70
99.0-100.0	10.3	1.1	124.5	0.75	84.46
100.0-101.0	10.1	1.1	125.6	0.74	85.20
101.0-102.0	9.9	1.1	126.6	0.72	85.92
102.0-103.0	9.7	1.0	127.7	0.70	86.62
103.0-104.0	9.5	1.0	128.7	0.69	87.31
104.0-105.0	9.3	1.0	129.7	0.67	87.98
105.0-106.0	9.1	1.0	130.6	0.65	88.63
106.0-107.0	8.8	0.9	131.5	0.63	89.26
107.0-108.0	8.6	0.9	132.4	0.61	89.87

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	8.4	0.9	133.3	0.59	90.46
109.0-110.0	8.1	0.8	134.2	0.57	91.03
110.0-111.0	7.9	0.8	135.0	0.55	91.57
111.0-112.0	7.6	0.8	135.7	0.53	92.10
112.0-113.0	7.3	0.7	136.5	0.50	92.60
113.0-114.0	7.1	0.7	137.2	0.48	93.09
114.0-115.0	6.8	0.7	137.9	0.46	93.55
115.0-116.0	6.5	0.6	138.5	0.44	93.99
116.0-117.0	6.3	0.6	139.1	0.42	94.41
117.0-118.0	6.0	0.6	139.7	0.40	94.80
118.0-119.0	5.7	0.6	140.3	0.37	95.18
119.0-120.0	5.5	0.5	140.8	0.35	95.53
120.0-121.0	5.2	0.5	141.3	0.33	95.86
121.0-122.0	4.9	0.5	141.7	0.31	96.18
122.0-123.0	4.7	0.4	142.2	0.29	96.47
123.0-124.0	4.4	0.4	142.6	0.27	96.74
124.0-125.0	4.1	0.4	142.9	0.25	96.99
125.0-126.0	3.9	0.3	143.3	0.24	97.23
126.0-127.0	3.7	0.3	143.6	0.22	97.45
127.0-128.0	3.5	0.3	143.9	0.20	97.65
128.0-129.0	3.3	0.3	144.2	0.19	97.84
129.0-130.0	3.1	0.3	144.5	0.18	98.02
130.0-131.0	2.9	0.2	144.7	0.16	98.18
131.0-132.0	2.7	0.2	144.9	0.15	98.33
132.0-133.0	2.5	0.2	145.1	0.14	98.47
133.0-134.0	2.4	0.2	145.3	0.13	98.60
134.0-135.0	2.2	0.2	145.5	0.12	98.71
135.0-136.0	2.0	0.2	145.6	0.11	98.82
136.0-137.0	1.9	0.1	145.8	0.10	98.92
137.0-138.0	1.7	0.1	145.9	0.09	99.00
138.0-139.0	1.6	0.1	146.0	0.08	99.08
139.0-140.0	1.5	0.1	146.1	0.07	99.15
140.0-141.0	1.4	0.1	146.2	0.06	99.22
141.0-142.0	1.2	0.1	146.3	0.06	99.28
142.0-143.0	1.1	0.1	146.4	0.05	99.33
143.0-144.0	1.1	0.1	146.5	0.05	99.37

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 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	1.0	0.1	146.5	0.04	99.42
145.0-146.0	1.0	0.1	146.6	0.04	99.46
146.0-147.0	0.9	0.1	146.6	0.04	99.50
147.0-148.0	0.9	0.1	146.7	0.04	99.53
148.0-149.0	0.9	0.1	146.7	0.03	99.57
149.0-150.0	0.9	0.0	146.8	0.03	99.60
150.0-151.0	0.9	0.0	146.8	0.03	99.63
151.0-152.0	0.8	0.0	146.9	0.03	99.66
152.0-153.0	0.8	0.0	146.9	0.03	99.69
153.0-154.0	0.8	0.0	147.0	0.03	99.72
154.0-155.0	0.8	0.0	147.0	0.03	99.75
155.0-156.0	0.8	0.0	147.0	0.02	99.77
156.0-157.0	0.8	0.0	147.1	0.02	99.79
157.0-158.0	0.7	0.0	147.1	0.02	99.81
158.0-159.0	0.7	0.0	147.1	0.02	99.83
159.0-160.0	0.7	0.0	147.2	0.02	99.85
160.0-161.0	0.7	0.0	147.2	0.02	99.87
161.0-162.0	0.7	0.0	147.2	0.02	99.89
162.0-163.0	0.7	0.0	147.2	0.02	99.90
163.0-164.0	0.7	0.0	147.3	0.01	99.92
164.0-165.0	0.6	0.0	147.3	0.01	99.93
165.0-166.0	0.6	0.0	147.3	0.01	99.94
166.0-167.0	0.6	0.0	147.3	0.01	99.95
167.0-168.0	0.6	0.0	147.3	0.01	99.96
168.0-169.0	0.5	0.0	147.3	0.01	99.97
169.0-170.0	0.5	0.0	147.3	0.01	99.97
170.0-171.0	0.5	0.0	147.3	0.01	99.98
171.0-172.0	0.4	0.0	147.4	0.00	99.99
172.0-173.0	0.4	0.0	147.4	0.00	99.99
173.0-174.0	0.4	0.0	147.4	0.00	99.99
174.0-175.0	0.4	0.0	147.4	0.00	100.00
175.0-176.0	0.3	0.0	147.4	0.00	100.00
176.0-177.0	0.3	0.0	147.4	0.00	100.00
177.0-178.0	0.3	0.0	147.4	0.00	100.00
178.0-179.0	0.3	0.0	147.4	0.00	100.00
179.0-180.0	0.3	0.0	147.4	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: