

Report No.:

Test Time: 2016-01-05 16:33

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: slim40-500-mat 65-70lm-5000k

Luminous Length (mm): 500

Luminous Width (mm): 130

Luminous Height (mm): 40

Voltage: 219.6 V

Current: 0.170 A

Power: 36.20 W

Power Factor: 0.966

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 3544.3 lm

Measurement Flux: 3544.3 lm

Efficiency: 100%

Downward Ratio: 97%

Upward Ratio: 3%

Field Angle: H185.3 V155.6

Beam Angle: H110.1 V101.7

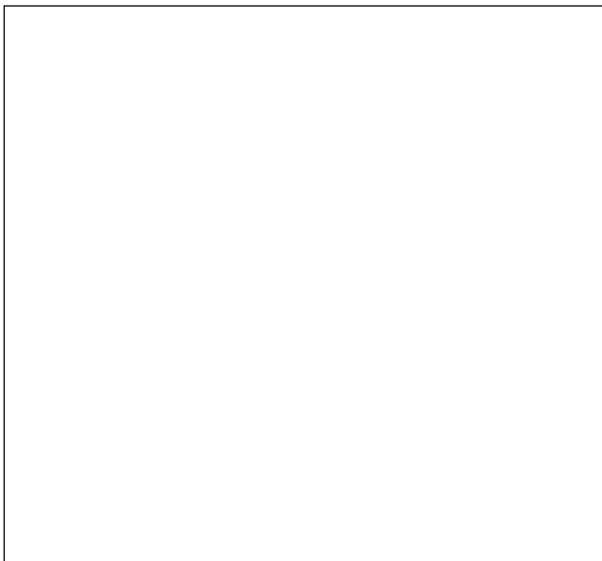
Luminaire Efficacy Rating (LER): 98

Central Intensity: 1246.36 cd

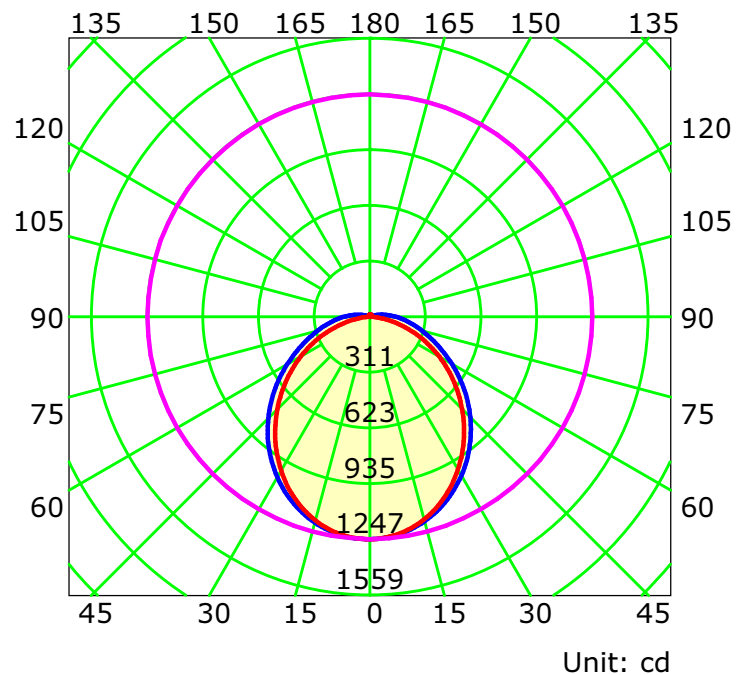
Max. Intensity: 1247.54 cd

Pos of Max. Intensity: H250 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 5.0

Gamma Plane (°):0.0-180.0:1.0

Test Lab:

Test Device: LSG-1600B

Test Type: TYPE C

Distance: 8.150 m

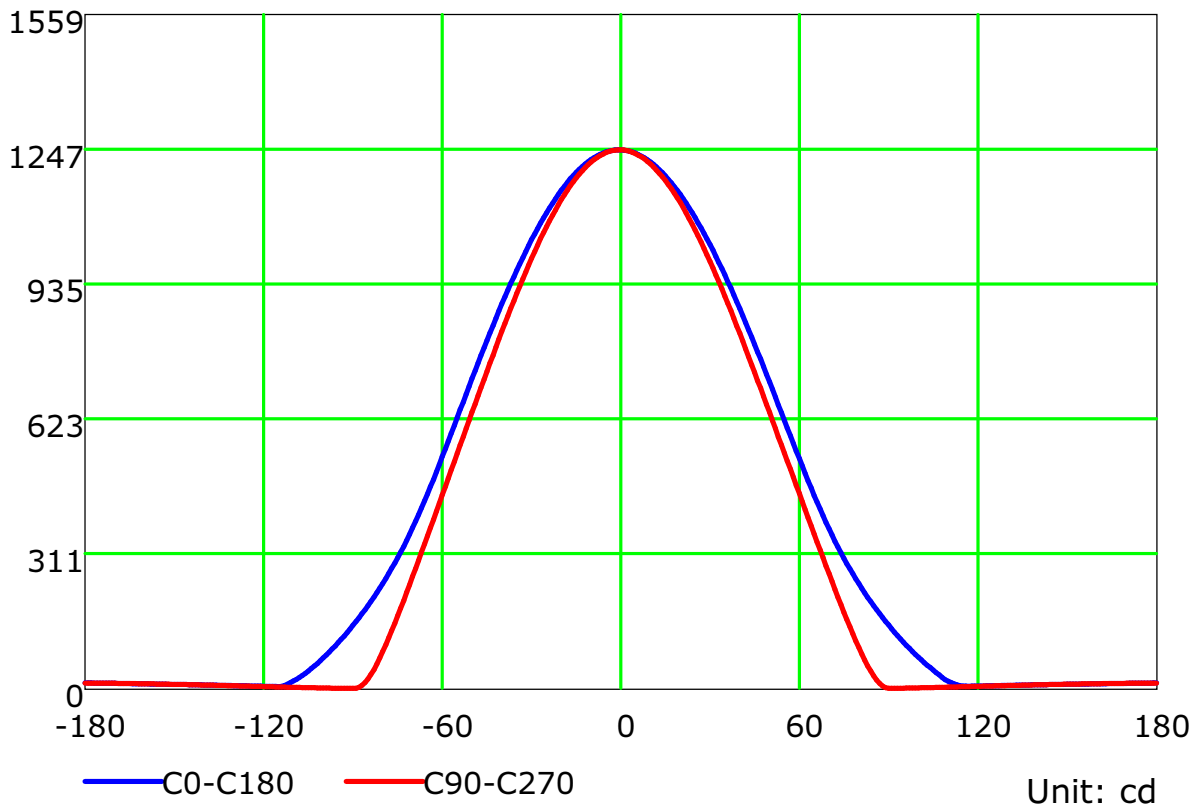
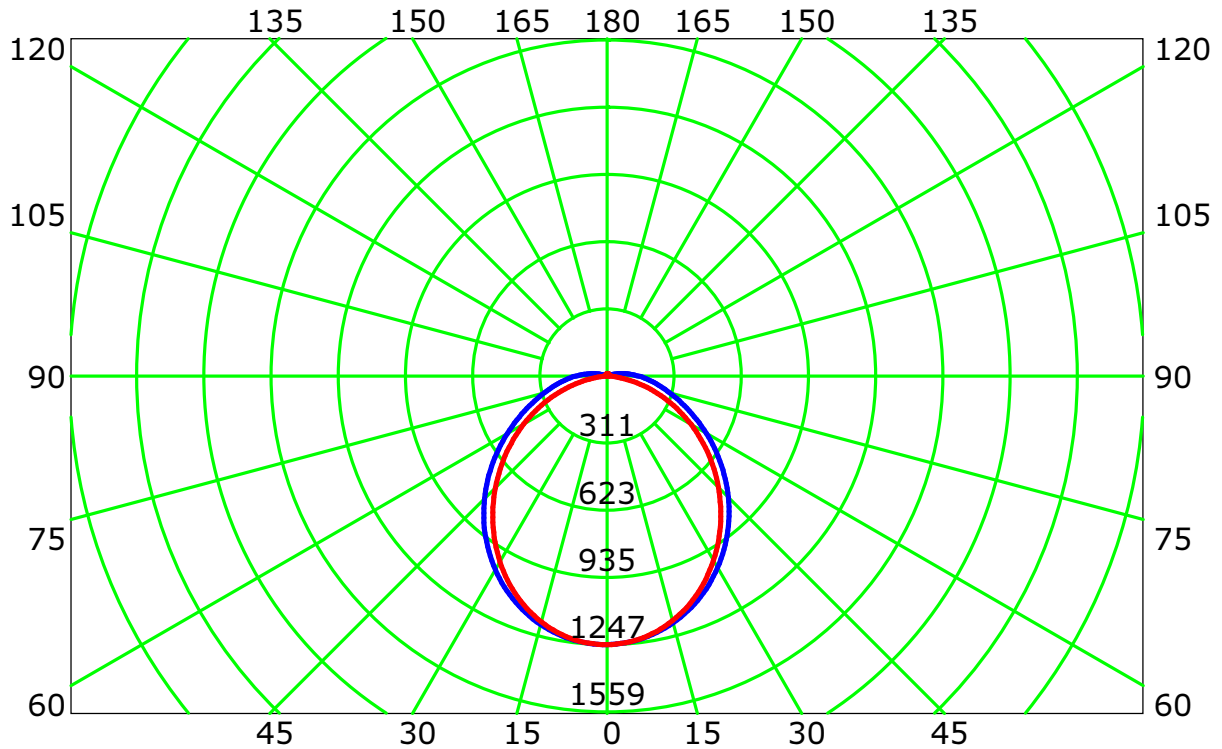
Temperature: 15

Humidity: 40

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 15

Operator:

Gamma Plane (°):0.0-180.0:1.0

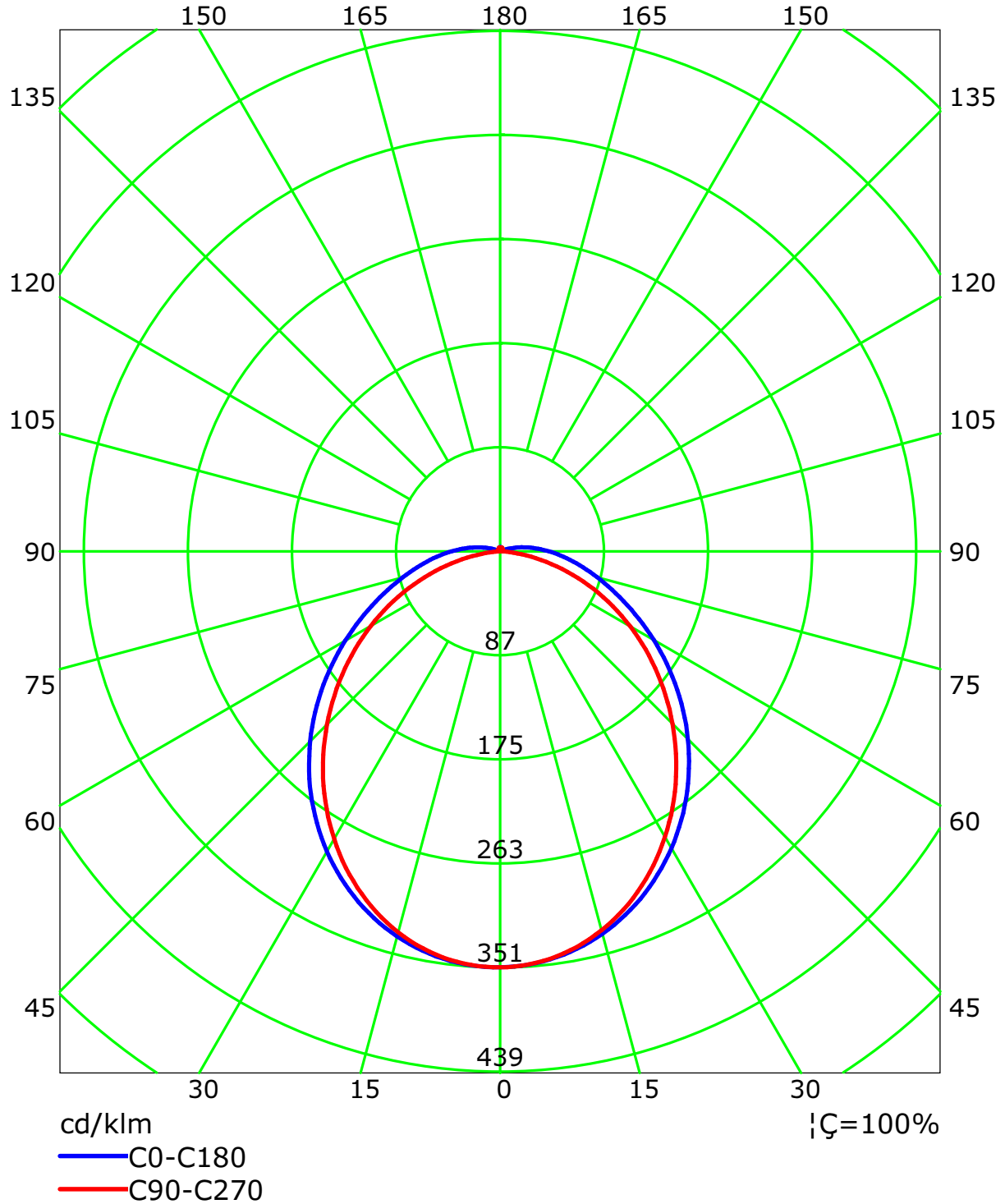
Test Device: LSG-1600B

Distance: 8.150 m

Humidity: 40

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 15

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1600B

Distance: 8.150 m

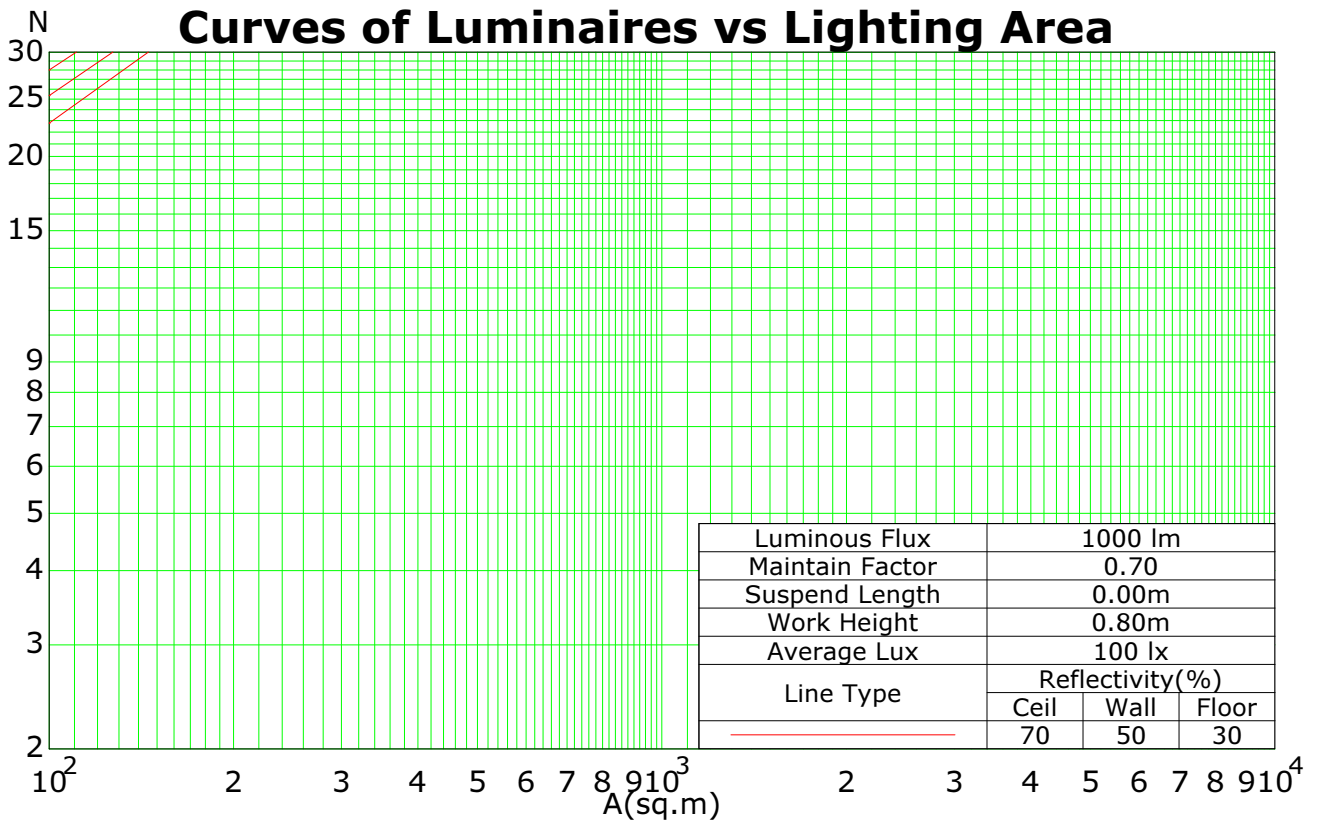
Humidity: 40

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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	80
2	97	89	82	76	95	87	80	75	83	77	73	79	74	71	76	72	69	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	54	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	42	36	31	41	35	31	29
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

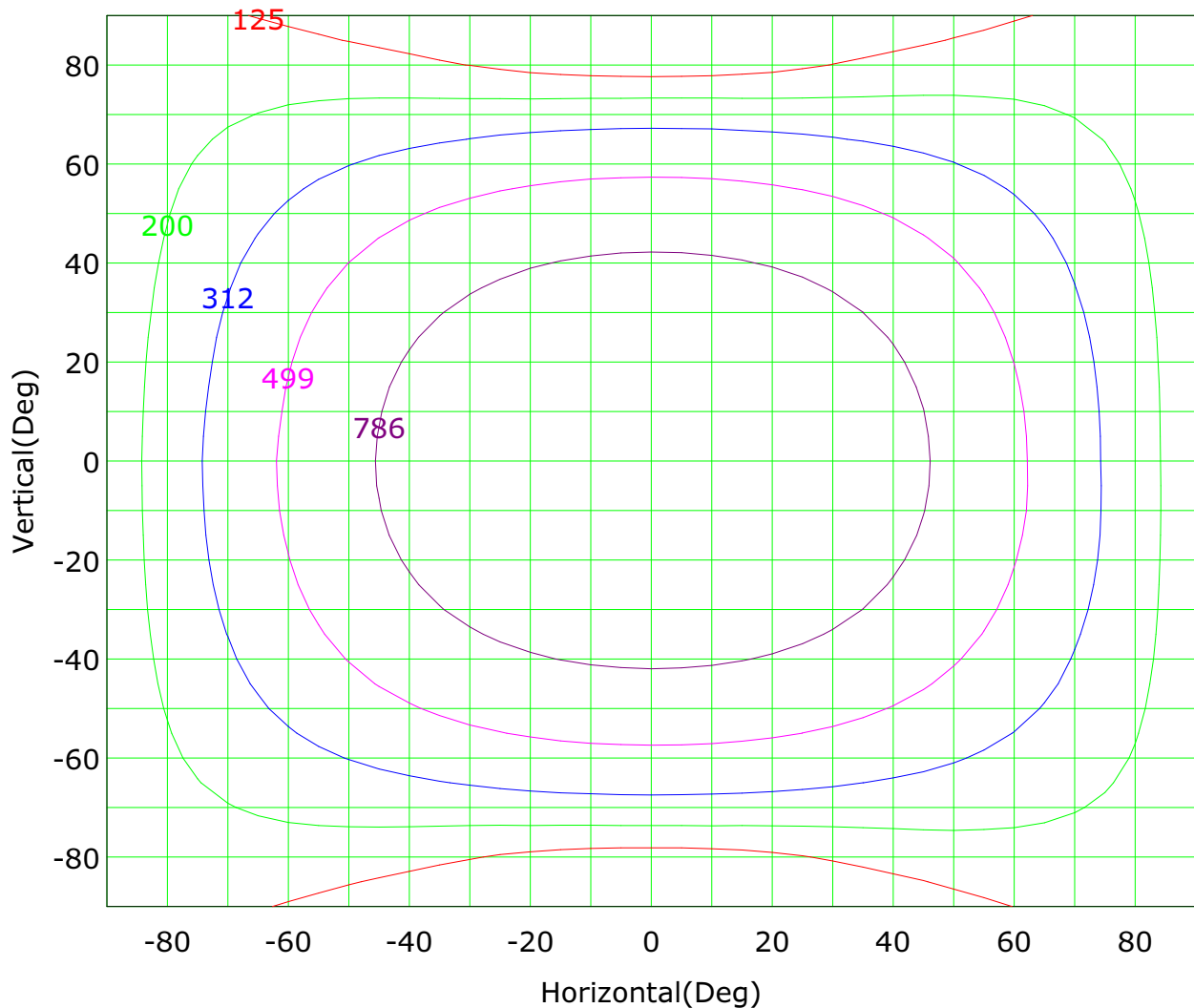
Spacing Criteria (0-180): 1.23
 Spacing Criteria (90-270): 1.19
 Spacing Criteria (Diagonal): 1.32



C Plane (°):0.0-360.0: 5.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 15
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1600B
 Distance: 8.150 m
 Humidity: 40
 Inspector:

Isocandela (rectangle)



Imax (100%): 1248 cd

— (10%):	125 cd	— (16%):	200 cd
— (25%):	312 cd	— (40%):	499 cd
— (63%):	786 cd	— (100%):	1248 cd

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 15

Operator:

Gamma Plane (°):0.0-180.0:1.0

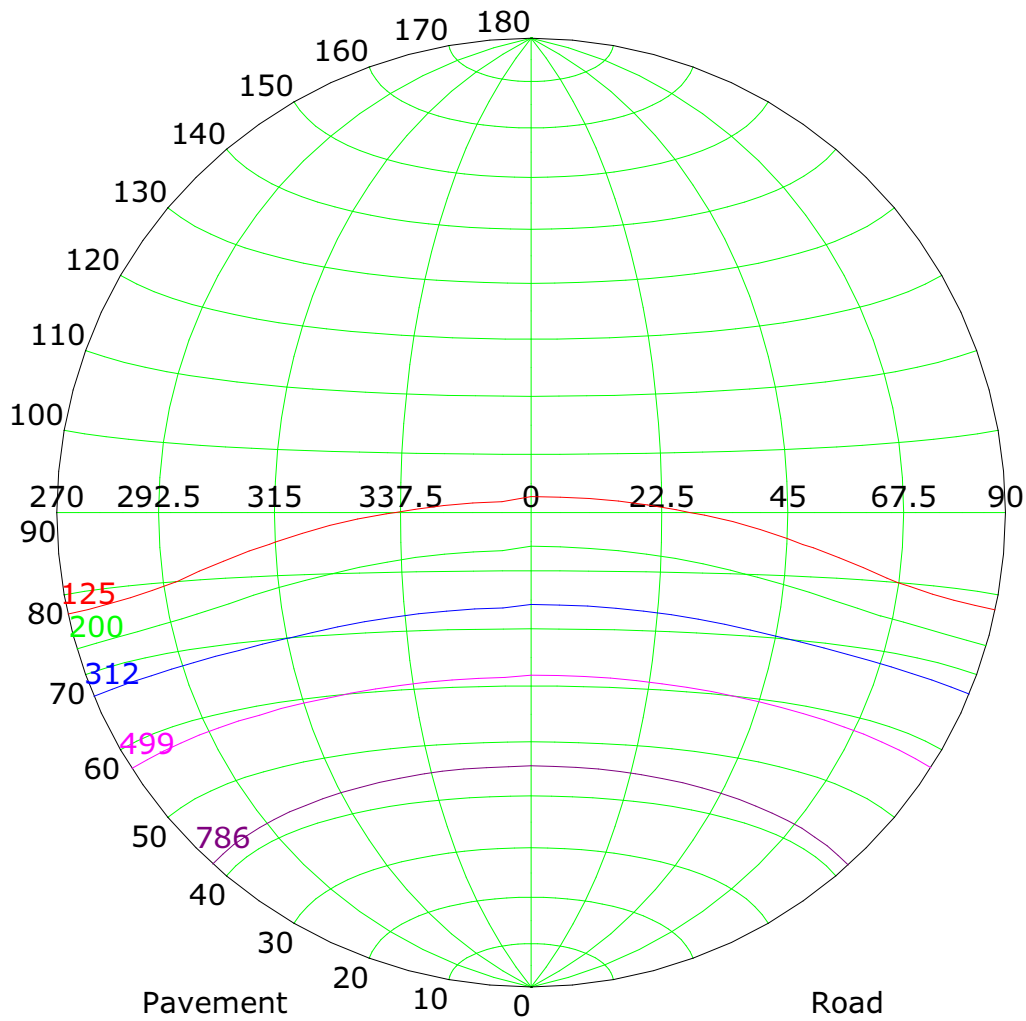
Test Device: LSG-1600B

Distance: 8.150 m

Humidity: 40

Inspector:

Isocandela (sphere)



Imax (100%): 1248 cd

— (10%):	125 cd	— (16%):	200 cd
— (25%):	312 cd	— (40%):	499 cd
— (63%):	786 cd	— (100%):	1248 cd

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 15

Operator:

Gamma Plane (°):0.0-180.0:1.0

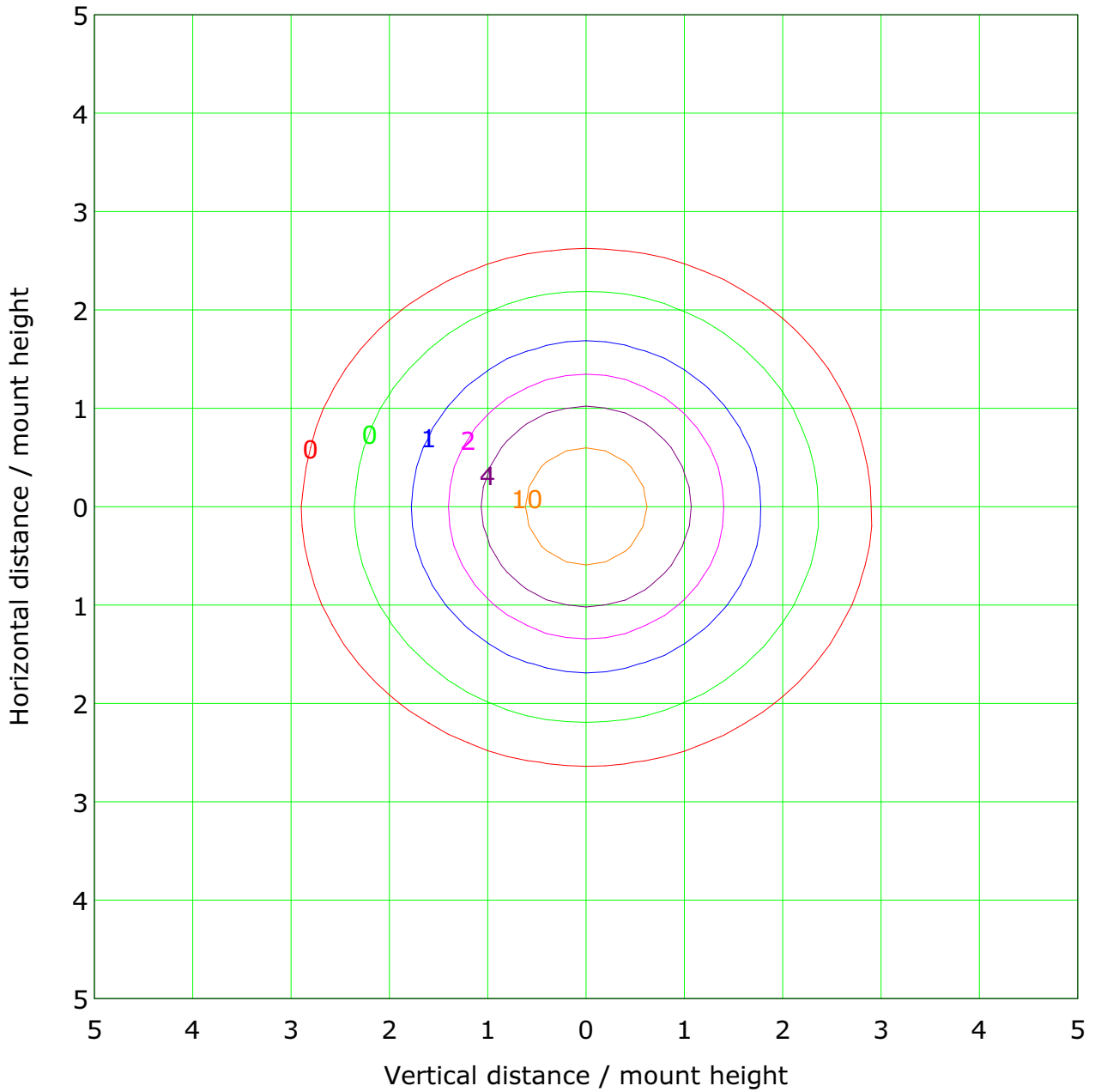
Test Device: LSG-1600B

Distance: 8.150 m

Humidity: 40

Inspector:

IsoLux Plot



Mounting Height: 8.0m		Max Lux(100%): 19.5 lx	
<ul style="list-style-type: none"> — (1%): 0.2 lx — (5%): 1.0 lx — (20%): 3.9 lx — (100%): 19.5 lx 	<ul style="list-style-type: none"> — (2%): 0.4 lx — (10%): 1.9 lx — (50%): 9.7 lx 		

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 15

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1600B

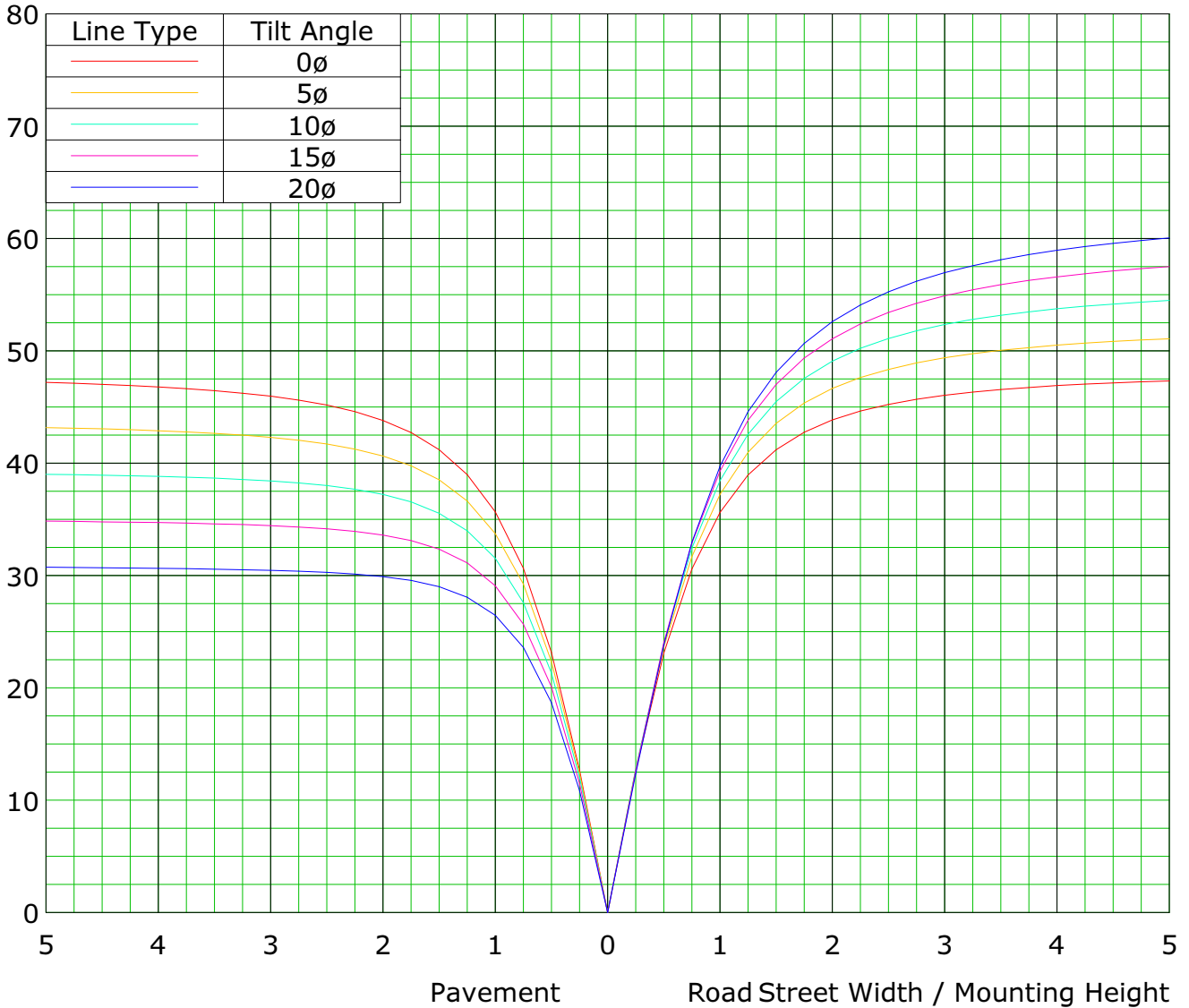
Distance: 8.150 m

Humidity: 40

Inspector:

Roadway CU Curve

Efficiency(%)



C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 15

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1600B

Distance: 8.150 m

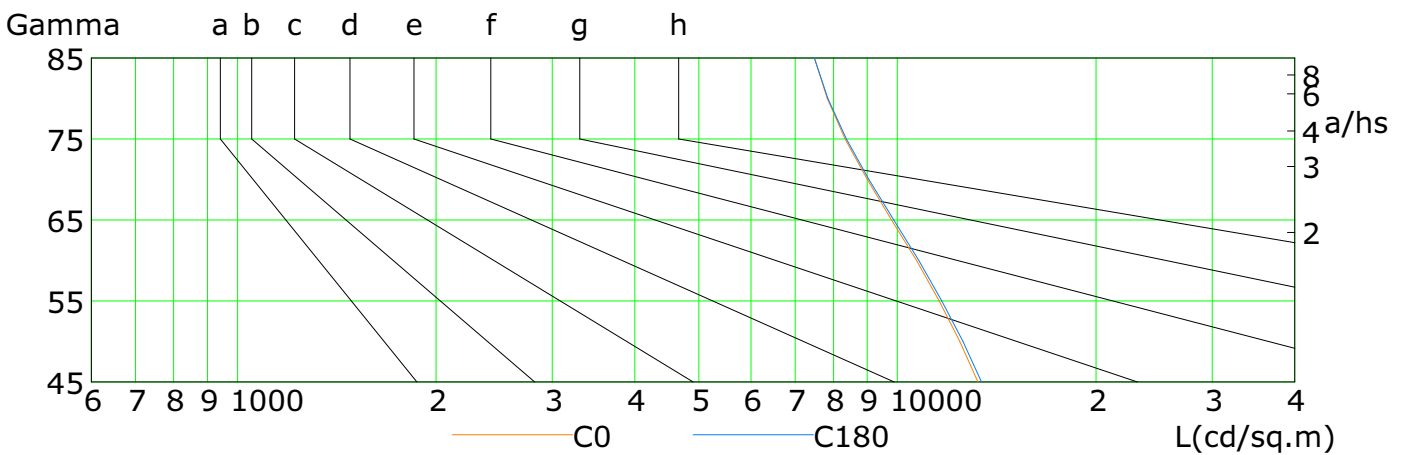
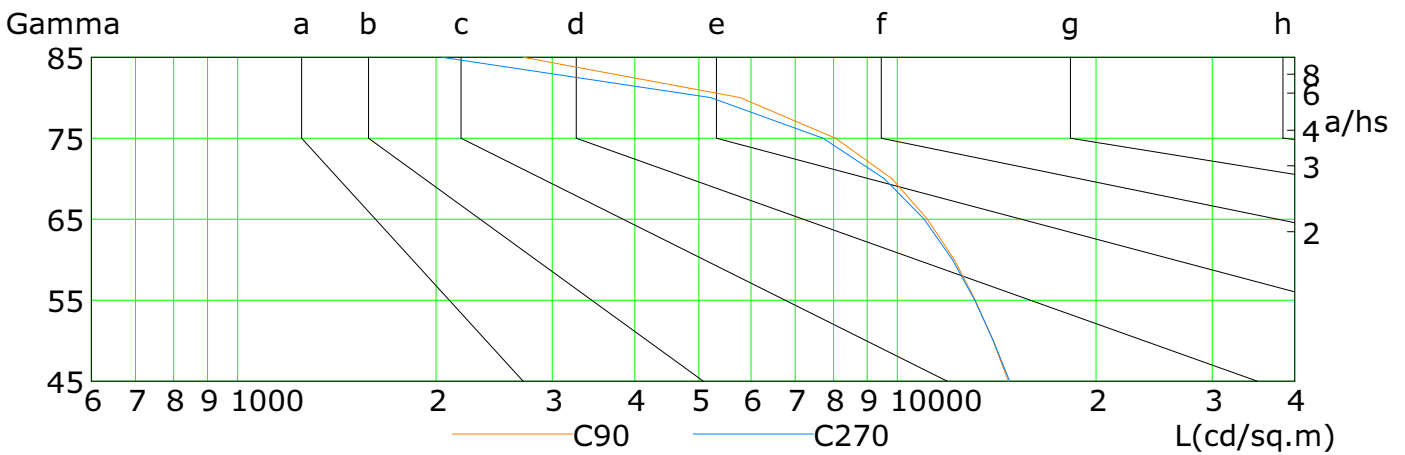
Humidity: 40

Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A								
1.50	B								
1.85	C								
2.20	D								
2.55	E								

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13249	12425	11566	10686	9795	9003	8335	7826	7487
C90	14735	13960	13124	12196	11104	9804	8058	5775	2710
C180	13403	12563	11679	10773	9873	9051	8374	7841	7485
C270	14787	13975	13093	12108	10979	9549	7718	5213	2039

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 15

Operator:

Gamma Plane (°):0.0-180.0:1.0

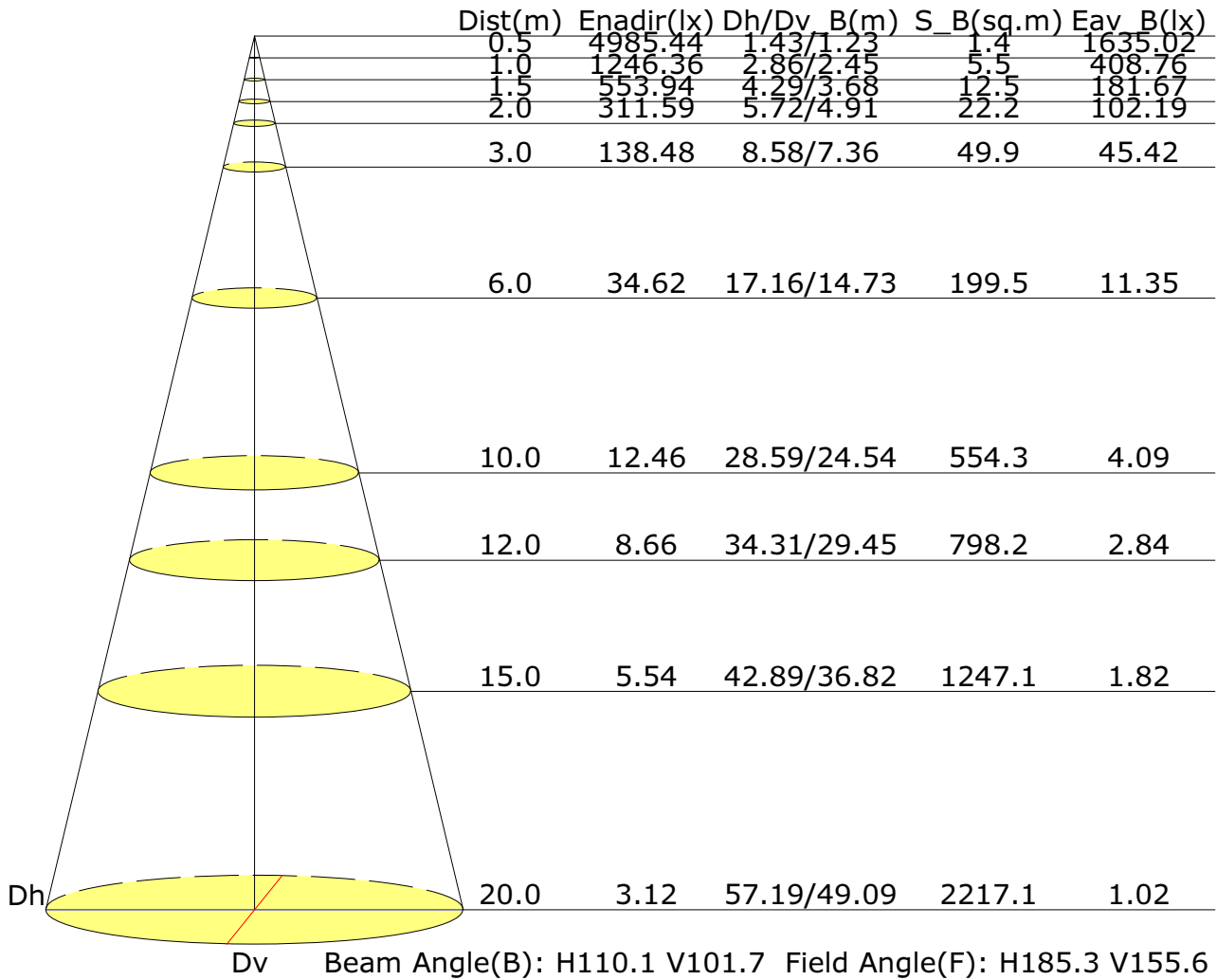
Test Device: LSG-1600B

Distance: 8.150 m

Humidity: 40

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 15

Operator:

Gamma Plane (°):0.0-180.0:1.0

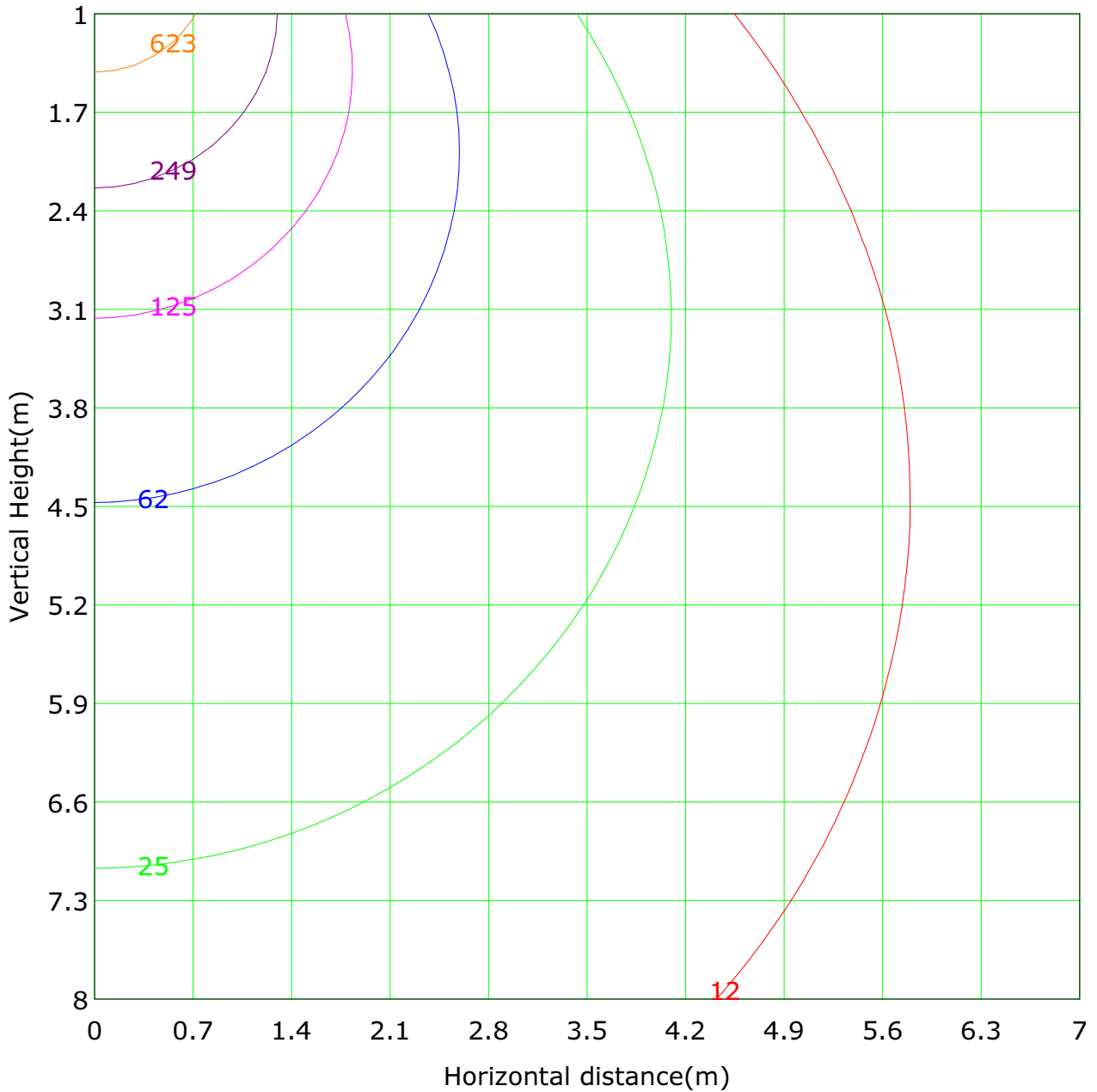
Test Device: LSG-1600B

Distance: 8.150 m

Humidity: 40

Inspector:

Vertical IsoLux Plot

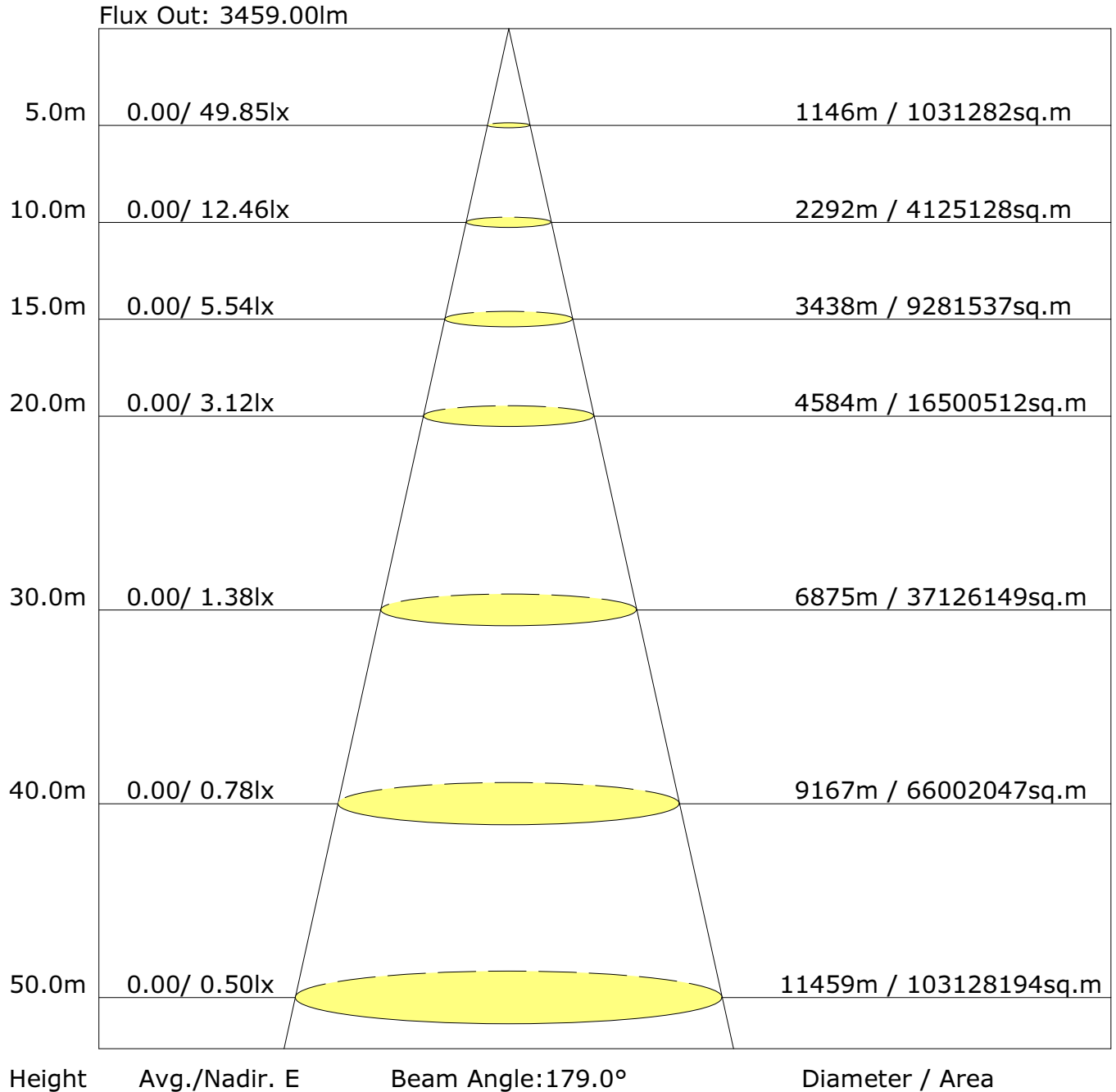


Lowest(m): 1.0m	Highest(m): 8.0m	Max Lux: 1246.4 lx
— (1%): 12.5 lx	— (2%): 24.9 lx	
— (5%): 62.3 lx	— (10%): 124.6 lx	
— (20%): 249.3 lx	— (50%): 623.2 lx	
— (100%):1246.4 lx		

C Plane (°):0.0-360.0: 5.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 15
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1600B
 Distance: 8.150 m
 Humidity: 40
 Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 5.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 15
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1600B
 Distance: 8.150 m
 Humidity: 40
 Inspector:

UGR Table

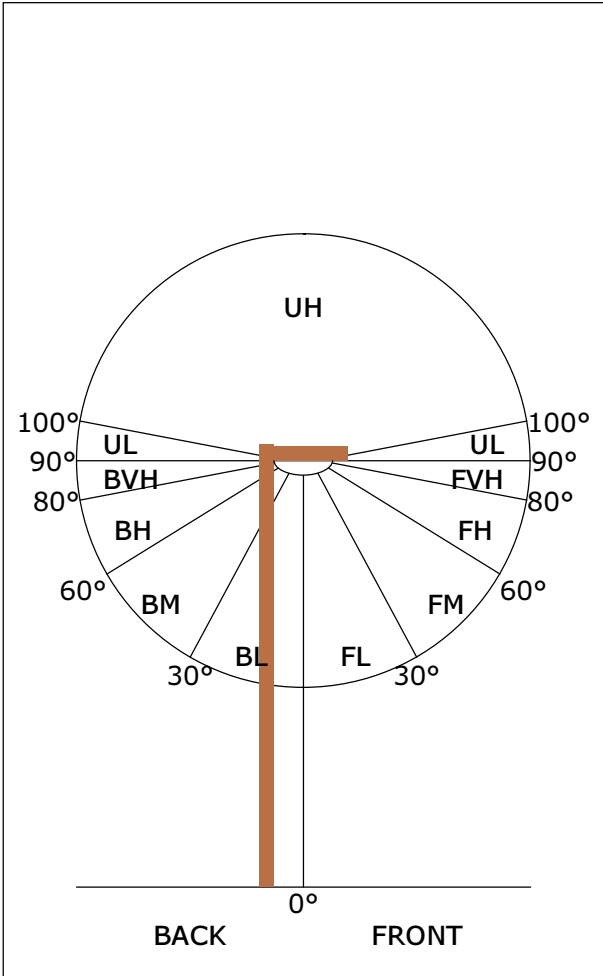
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	16.4	18.0	16.8	18.3	18.7	15.0	16.6	15.4	17.0	17.4
3H	18.4	19.8	18.8	20.2	20.6	16.4	17.8	16.8	18.2	18.7
4H	19.3	20.6	19.7	21.0	21.5	16.8	18.2	17.3	18.6	19.0
6H	20.1	21.4	20.6	21.8	22.3	17.1	18.3	17.5	18.7	19.2
8H	20.6	21.8	21.0	22.2	22.7	17.1	18.3	17.6	18.7	19.2
12H	21.0	22.2	21.5	22.6	23.1	17.1	18.2	17.6	18.7	19.2
X=4H Y=2H	16.8	18.1	17.2	18.6	19.0	15.7	17.1	16.2	17.5	17.9
3H	19.0	20.1	19.4	20.6	21.1	17.3	18.5	17.8	18.9	19.4
4H	20.0	21.1	20.5	21.5	22.0	17.8	18.9	18.3	19.3	19.9
6H	21.1	22.0	21.6	22.5	23.0	18.2	19.1	18.7	19.6	20.1
8H	21.6	22.5	22.1	23.0	23.5	18.2	19.1	18.7	19.6	20.1
12H	22.2	23.0	22.7	23.5	24.0	18.2	19.0	18.8	19.5	20.1
X=8H Y=4H	20.2	21.1	20.7	21.6	22.1	18.3	19.1	18.8	19.6	20.2
6H	21.4	22.2	22.0	22.7	23.2	18.7	19.5	19.3	20.0	20.5
8H	22.1	22.7	22.6	23.3	23.8	18.9	19.5	19.4	20.1	20.6
12H	22.8	23.4	23.3	23.9	24.5	18.9	19.5	19.5	20.0	20.7
X=12H Y=4H	20.2	21.0	20.8	21.5	22.1	18.4	19.2	18.9	19.7	20.2
6H	21.5	22.1	22.0	22.6	23.2	18.9	19.6	19.5	20.1	20.7
8H	22.2	22.7	22.7	23.3	23.9	19.1	19.7	19.7	20.2	20.8

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 5.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 15
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1600B
 Distance: 8.150 m
 Humidity: 40
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

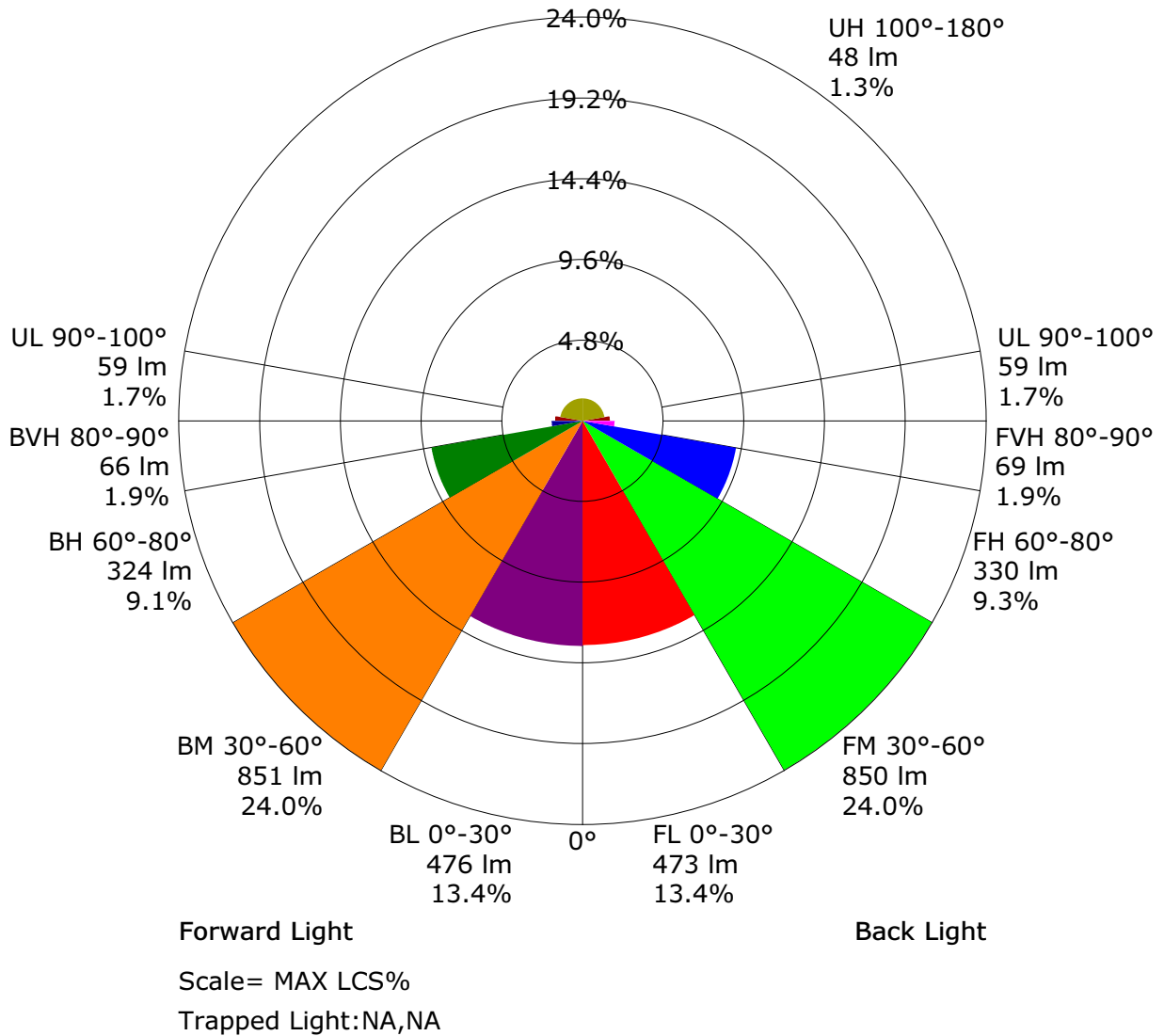
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1722	48.6
	FL (0°-30°)	473	13.4
	FM (30°-60°)	850	24.0
	FH (60°-80°)	330	9.3
	FVH (80°-90°)	69	1.9
	BACK LIGHT	1716	48.4
	BL (0°-30°)	476	13.4
	BM (30°-60°)	851	24.0
	BH (60°-80°)	324	9.1
	BVH (80°-90°)	66	1.9
	UP LIGHT	107	3.0
	UL (90°-100°)	59	1.7
	UH (100°-180°)	48	1.3
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 G1

C Plane (°):0.0-360.0: 5.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 15
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1600B
 Distance: 8.150 m
 Humidity: 40
 Inspector:

LCS Graph



C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 15

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1600B

Distance: 8.150 m

Humidity: 40

Inspector: