

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P642702

Luminaire Tested: ML5615LSNFL259FS1E - 591WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 591WB - 1200LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

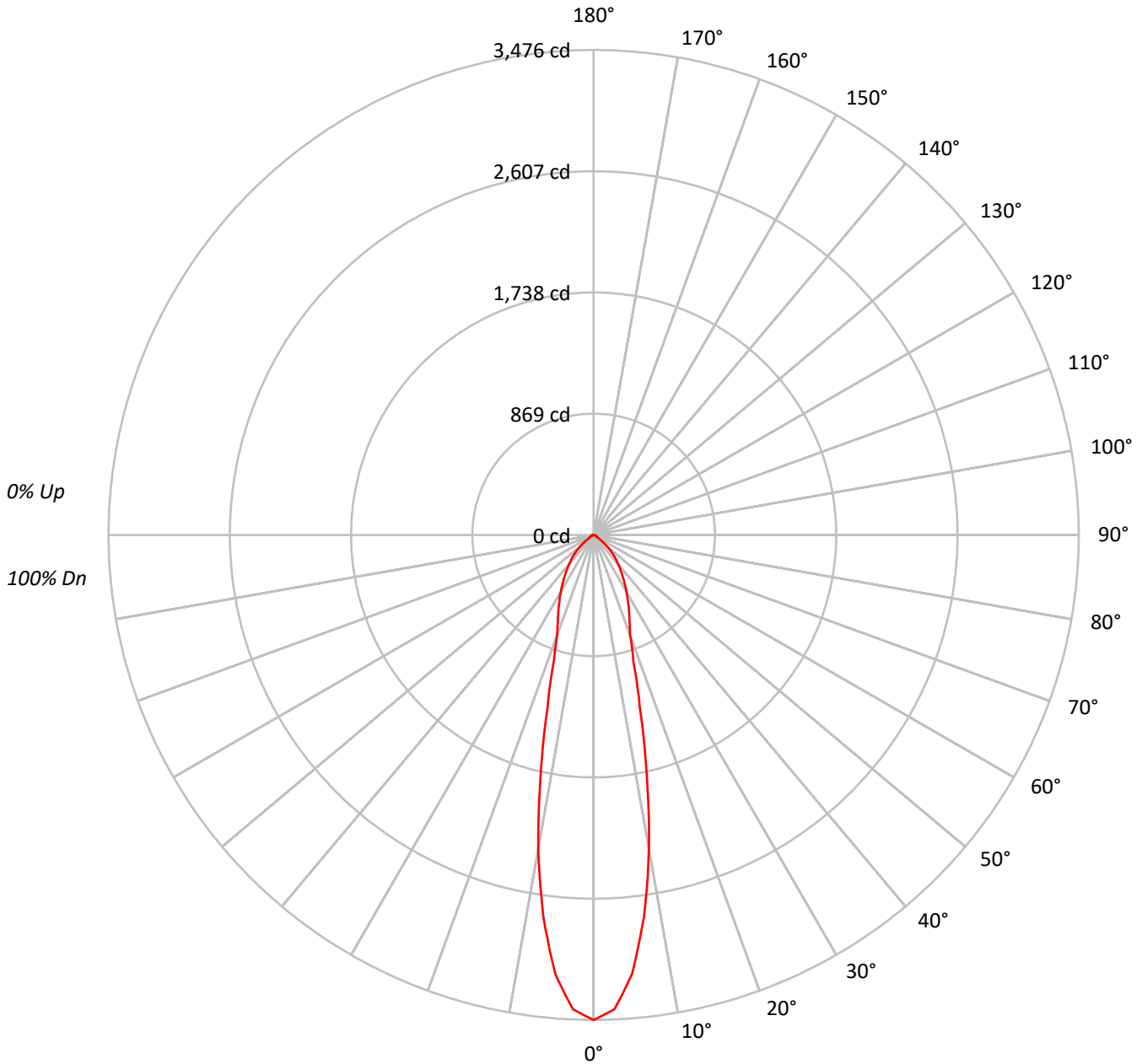
Lumens per Lamp: N/A
Luminaire Lumens: 1381.5 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84		89	86	83		87	84	82	80
4	97	89	84	79	95	88	83	79	86	81	78		84	80	77		82	79	76	75
5	92	84	78	74	90	83	77	73	81	76	73		79	75	72		78	74	71	70
6	88	79	73	69	86	78	72	68	77	72	68		75	71	67		74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64		71	67	64		70	66	63	62
8	80	71	65	61	79	70	64	61	69	64	60		68	63	60		67	63	60	58
9	77	67	61	58	76	67	61	57	66	61	57		65	60	57		64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	274399
5°	250176
10°	183074
15°	104233
20°	64173
25°	52139
30°	42942
35°	34866
40°	28164
45°	22518
50°	14700
55°	6441
60°	4105
65°	3642
70°	3301
75°	3172
80°	3546
85°	3532

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22518 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.9	19.8
10°-20°	367.2	26.6
20°-30°	275.7	20.0
30°-40°	227.3	16.5
40°-50°	151.6	11.0
50°-60°	51.4	3.7
60°-70°	19.8	1.4
70°-80°	11.2	0.8
80°-90°	4.6	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	915.7	66.3
0°-40°	1143.0	82.7
0°-60°	1346.0	97.4
0°-90°	1381.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1381.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3476	
5°	3157	273
15°	1275	367
25°	599	276
35°	362	227
45°	202	152
55°	47	51
65°	20	20
75°	10	11
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3476.0
2.5°	3404.4
5°	3157.1
7.5°	2760.2
10°	2283.9
12.5°	1753.0
15°	1275.4
17.5°	946.1
20°	763.9
22.5°	668.9
25°	598.6
27.5°	531.0
30°	471.1
32.5°	413.8
35°	361.8
37.5°	314.9
40°	273.3
42.5°	235.5
45°	201.7
47.5°	157.5
50°	119.7
52.5°	82.0
55°	46.8
57.5°	31.2
60°	26.0
62.5°	23.4
65°	19.5
67.5°	16.9
70°	14.3
72.5°	11.7
75°	10.4
77.5°	9.1
80°	7.8
82.5°	6.5
85°	3.9
87.5°	2.6
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)