

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: P642558

Luminaire Tested: ML5615LSFL409FS1E - 692H - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 692H - 1500LM - 3500K
Description: ML56 RR, 40D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

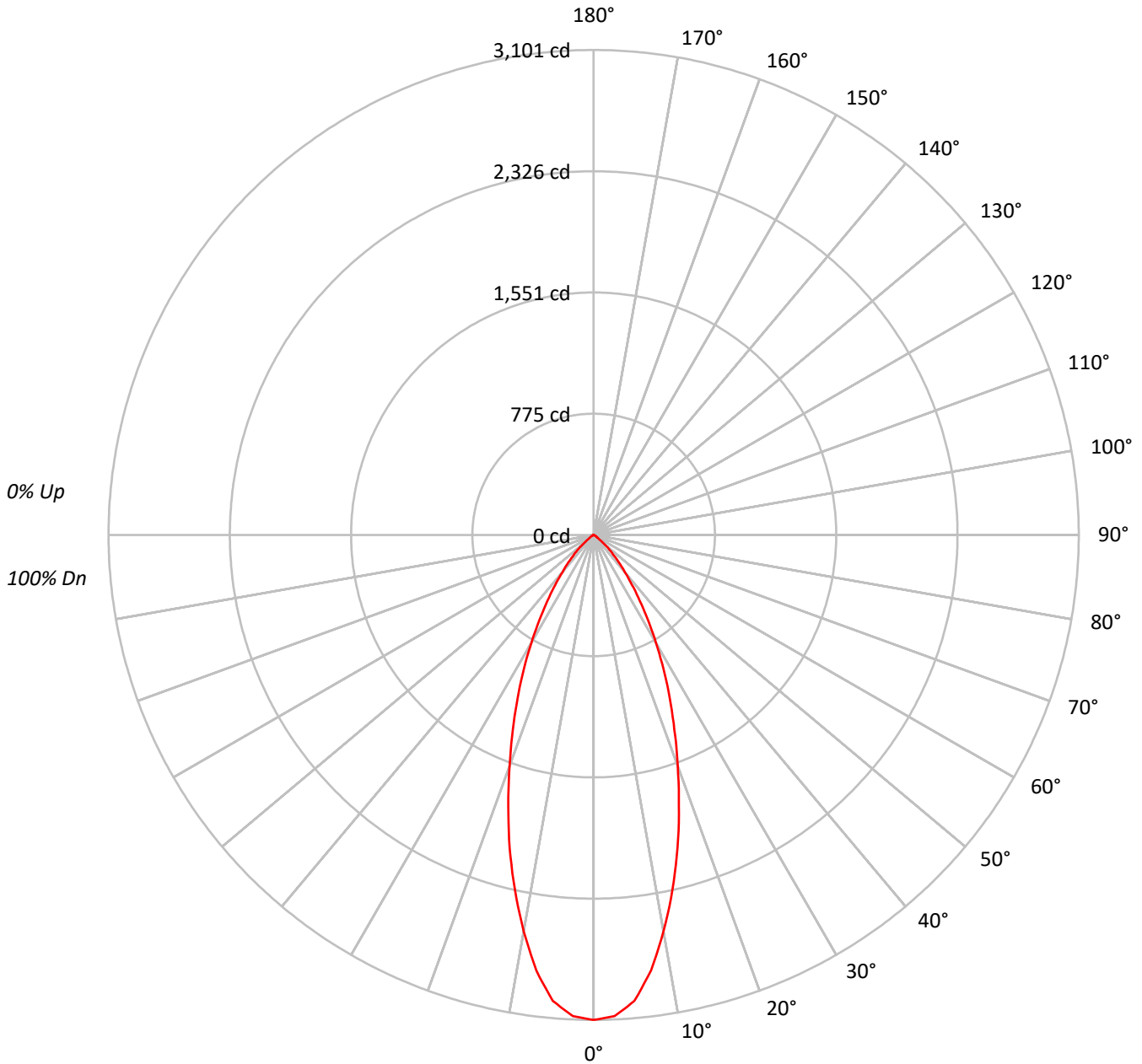
Lumens per Lamp: N/A
Luminaire Lumens: 1876.1 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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			100																
1	114	111	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94			94																
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			88																
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82			82																
4	98	91	85	81	96	90	85	81	87	83	80	86	82	79	84	81	78	77			77																
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72			72																
6	89	80	75	70	87	80	74	70	78	73	70	77	72	69	75	72	69	67			67																
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	63			63																
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60			60																
9	77	68	62	59	76	68	62	58	67	62	58	66	61	58	65	61	58	57			57																
10	74	65	59	55	73	64	59	55	64	59	55	63	58	55	62	58	55	54			54																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	170008
5°	164599
10°	143267
15°	117617
20°	91562
25°	69488
30°	50350
35°	34425
40°	22227
45°	13637
50°	6865
55°	2829
60°	1798
65°	636
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13637 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	14.5
10°-20°	572.3	30.5
20°-30°	526.9	28.1
30°-40°	326.4	17.4
40°-50°	141.1	7.5
50°-60°	31.8	1.7
60°-70°	6.0	0.3
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1370.9	73.1
0°-40°	1697.2	90.5
0°-60°	1870.1	99.7
0°-90°	1876.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1876.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3101	
5°	2991	272
15°	2072	572
25°	1149	527
35°	514	326
45°	176	141
55°	30	32
65°	5	6
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3101.2
2.5°	3079.8
5°	2991.1
7.5°	2808.7
10°	2573.7
12.5°	2325.5
15°	2072.4
17.5°	1812.7
20°	1569.5
22.5°	1347.6
25°	1148.8
27.5°	964.7
30°	795.4
32.5°	645.9
35°	514.4
37.5°	402.6
40°	310.6
42.5°	239.9
45°	175.9
47.5°	129.8
50°	80.5
52.5°	42.7
55°	29.6
57.5°	23.0
60°	16.4
62.5°	9.9
65°	4.9
67.5°	1.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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