

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: P642119

Luminaire Tested: ML5612LSWFL5597FS1E - 692H - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-61)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 692H - 1200LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

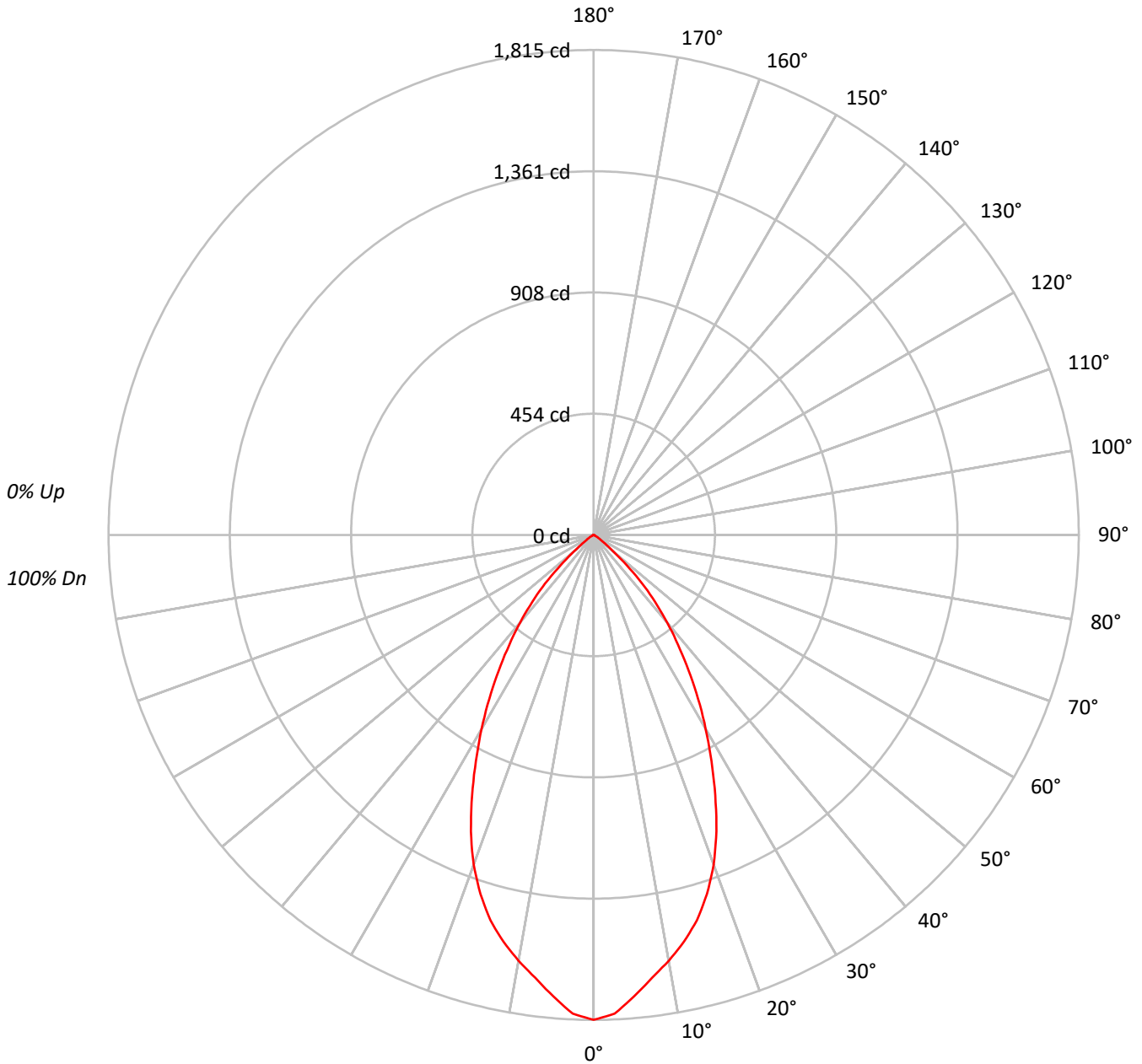
Lumens per Lamp: N/A
Luminaire Lumens: 1692.1 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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																			
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86																			
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79																			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58																			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54																			
9	73	63	57	52	72	62	56	52	61	56	52	60	56	52	60	55	52	50																			
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99482
5°	95394
10°	90062
15°	84745
20°	76592
25°	65060
30°	53059
35°	41419
40°	30636
45°	19917
50°	8196
55°	3154
60°	1480
65°	389
70°	240
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19917 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	9.6
10°-20°	415.7	24.6
20°-30°	491.7	29.1
30°-40°	387.2	22.9
40°-50°	194.9	11.5
50°-60°	35.9	2.1
60°-70°	4.4	0.3
70°-80°	0.6	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°	1069.1	63.2
0°-40°	1456.3	86.1
0°-60°	1687.1	99.7
0°-90°	1692.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1692.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1815	
5°	1734	162
15°	1493	416
25°	1076	492
35°	619	387
45°	257	195
55°	33	36
65°	3	4
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1814.7
2.5°	1793.6
5°	1733.5
7.5°	1672.0
10°	1617.9
12.5°	1559.3
15°	1493.2
17.5°	1409.1
20°	1312.9
22.5°	1200.3
25°	1075.6
27.5°	953.9
30°	838.2
32.5°	727.1
35°	618.9
37.5°	518.3
40°	428.1
42.5°	339.5
45°	256.9
47.5°	166.7
50°	96.1
52.5°	52.6
55°	33.0
57.5°	22.5
60°	13.5
62.5°	6.0
65°	3.0
67.5°	1.5
70°	1.5
72.5°	1.5
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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(END OF REPORT)