

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: P643948

Luminaire Tested: ML5615LSWFL559FS1E - 692SC - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 692SC - 1200LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 6" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

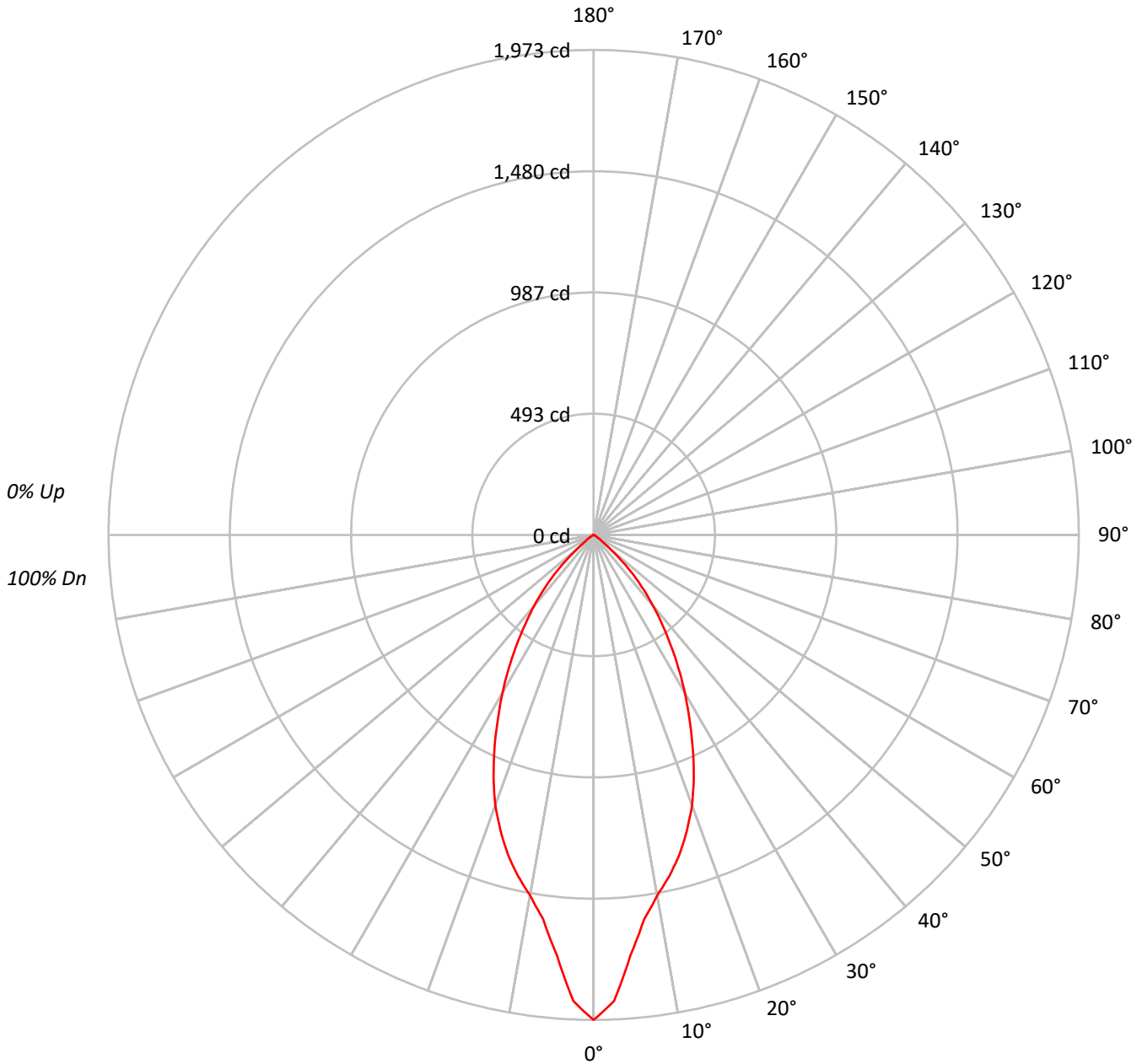
Lumens per Lamp: N/A
Luminaire Lumens: 1512.7 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 0.72 / 0.72 / 0.81
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79					79			
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73					73			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68					68			
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59					59			
8	77	67	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55					55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	108166
5°	94453
10°	82898
15°	76476
20°	68238
25°	57651
30°	46881
35°	36500
40°	26879
45°	17413
50°	7181
55°	2686
60°	1173
65°	350
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17413 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	10.4
10°-20°	375.1	24.8
20°-30°	435.5	28.8
30°-40°	341.2	22.6
40°-50°	170.8	11.3
50°-60°	30.2	2.0
60°-70°	2.9	0.2
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°	967.7	64.0
0°-40°	1308.8	86.5
0°-60°	1509.8	99.8
0°-90°	1512.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1512.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1973	
5°	1716	157
15°	1348	375
25°	953	436
35°	545	341
45°	225	171
55°	28	30
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1973.1
2.5°	1898.2
5°	1716.4
7.5°	1576.1
10°	1489.2
12.5°	1421.0
15°	1347.5
17.5°	1260.6
20°	1169.7
22.5°	1064.1
25°	953.1
27.5°	842.2
30°	740.6
32.5°	641.7
35°	545.4
37.5°	455.8
40°	375.6
42.5°	298.1
45°	224.6
47.5°	145.7
50°	84.2
52.5°	44.1
55°	28.1
57.5°	17.4
60°	10.7
62.5°	4.0
65°	2.7
67.5°	0.0
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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