

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: P642926

Luminaire Tested: ML5615LSNFL259FS1E - 692W - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 692W - 1200LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

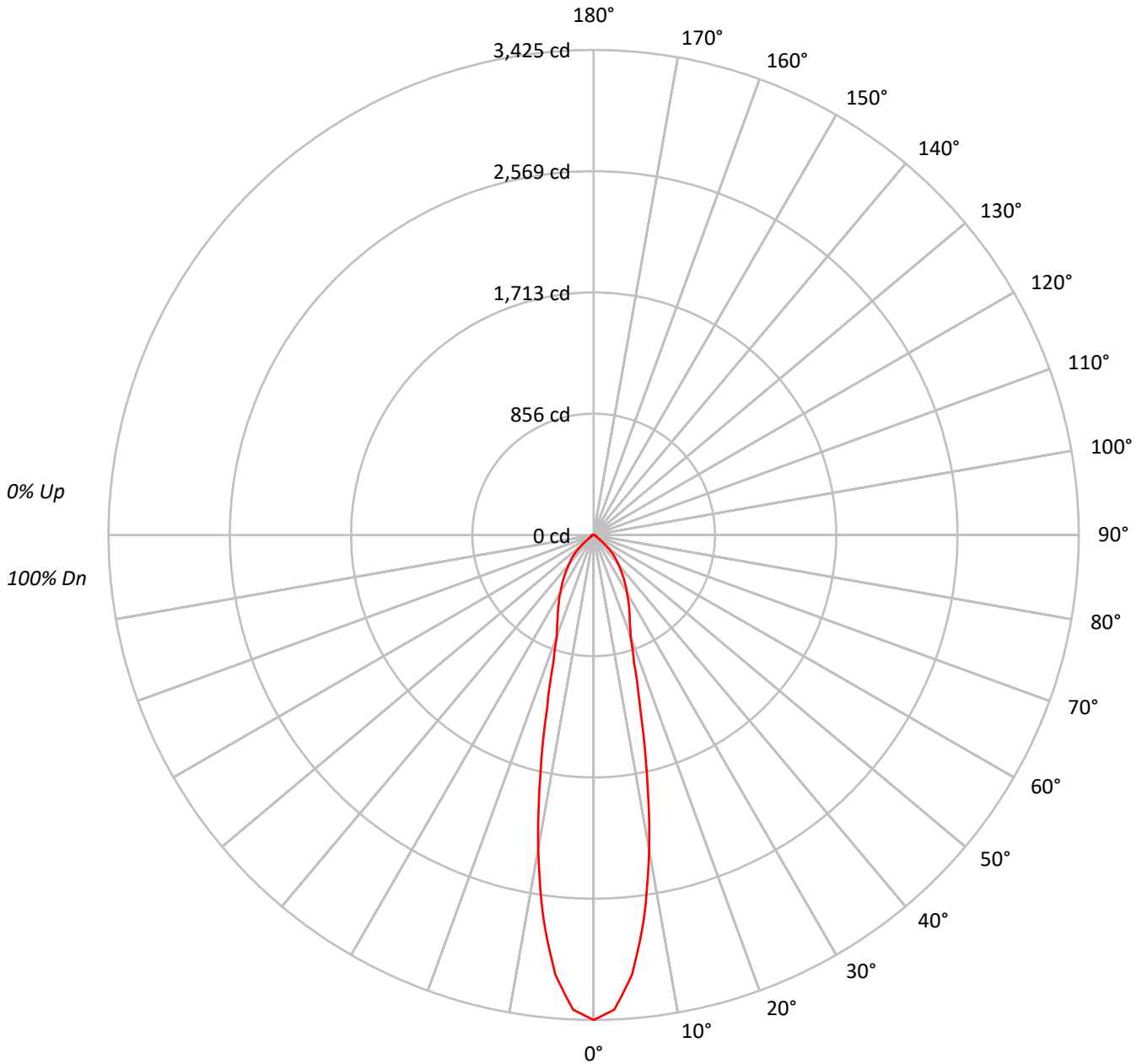
Lumens per Lamp: N/A
Luminaire Lumens: 1353.2 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70			
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62			
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	57	56			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	187781
5°	171384
10°	125710
15°	72049
20°	44407
25°	36099
30°	29853
35°	24373
40°	19544
45°	15195
50°	8409
55°	3259
60°	2631
65°	2296
70°	2020
75°	2139
80°	1989
85°	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15195 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.4	19.9
10°-20°	365.1	27.0
20°-30°	275.3	20.3
30°-40°	228.2	16.9
40°-50°	145.5	10.8
50°-60°	38.7	2.9
60°-70°	18.0	1.3
70°-80°	10.2	0.8
80°-90°	2.9	0.2
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°	909.7	67.2
0°-40°	1138.0	84.1
0°-60°	1322.2	97.7
0°-90°	1353.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3425	
5°	3114	269
15°	1270	365
25°	597	275
35°	364	228
45°	196	146
55°	34	39
65°	18	18
75°	10	10
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3425.4
2.5°	3354.6
5°	3114.4
7.5°	2727.4
10°	2258.3
12.5°	1737.4
15°	1269.5
17.5°	947.1
20°	761.2
22.5°	667.6
25°	596.8
27.5°	531.1
30°	471.6
32.5°	416.0
35°	364.2
37.5°	316.1
40°	273.1
42.5°	233.9
45°	196.0
47.5°	145.4
50°	98.6
52.5°	51.8
55°	34.1
57.5°	27.8
60°	24.0
62.5°	21.5
65°	17.7
67.5°	15.2
70°	12.6
72.5°	11.4
75°	10.1
77.5°	7.6
80°	6.3
82.5°	3.8
85°	2.5
87.5°	1.3
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)