

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: P643743

Luminaire Tested: ML5615LSWFL559FS1E - 591WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 591WB - 1500LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

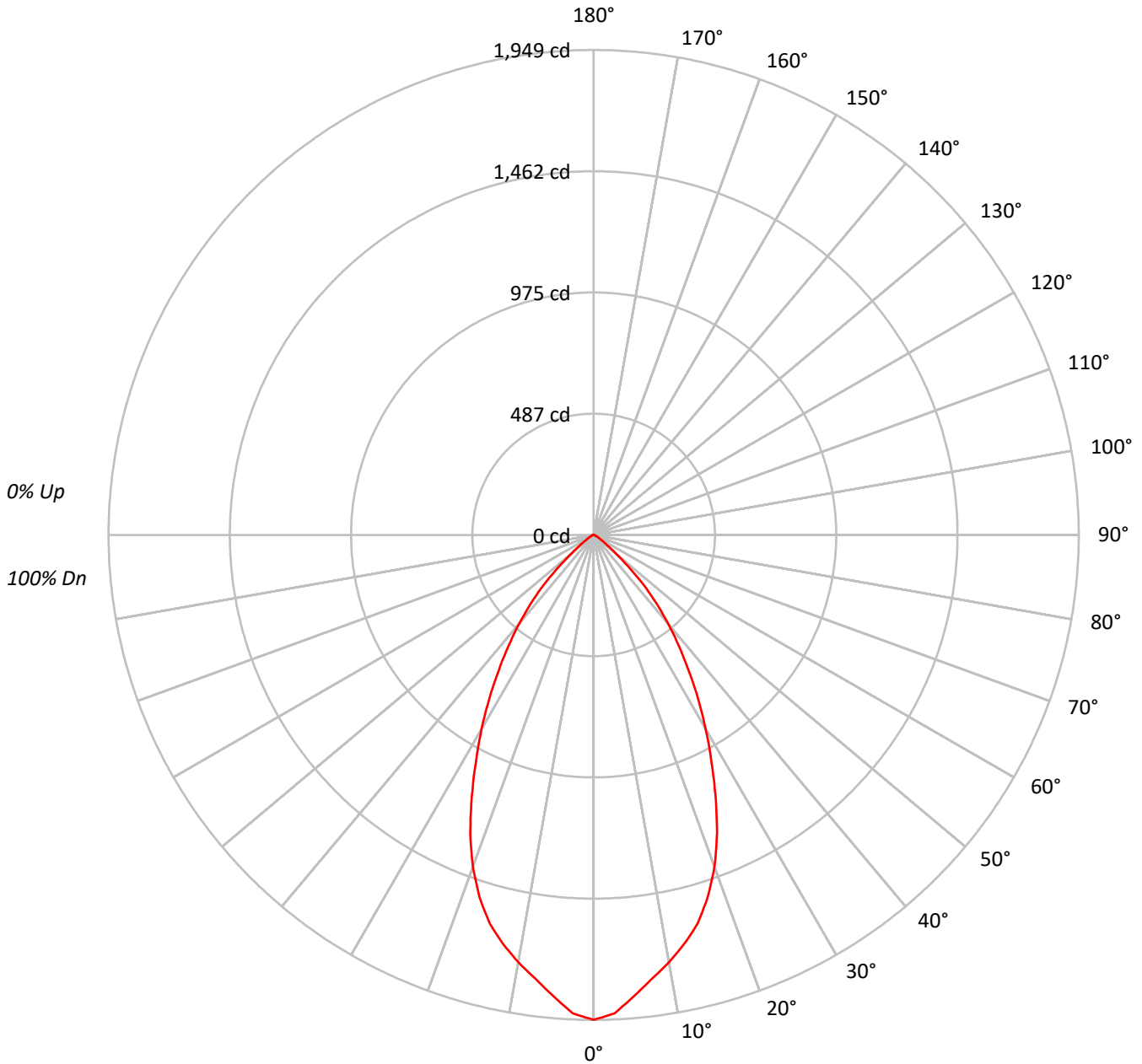
Lumens per Lamp: N/A
Luminaire Lumens: 1853.2 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93				93															
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85															
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78				78															
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72				72															
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67				67															
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62				62															
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57				57															
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53				53															
9	73	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50				50															
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47				47															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	153848
5°	147415
10°	139773
15°	132036
20°	119173
25°	100820
30°	82020
35°	64085
40°	47887
45°	31527
50°	14725
55°	6097
60°	3631
65°	2148
70°	1523
75°	1495
80°	1500
85°	1449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31527 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	9.4
10°-20°	449.3	24.2
20°-30°	529.2	28.6
30°-40°	416.9	22.5
40°-50°	215.9	11.7
50°-60°	48.0	2.6
60°-70°	12.5	0.7
70°-80°	5.2	0.3
80°-90°	2.2	0.1
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°	1152.4	62.2
0°-40°	1569.3	84.7
0°-60°	1833.2	98.9
0°-90°	1853.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1949	
5°	1860	174
15°	1616	449
25°	1158	529
35°	665	417
45°	282	216
55°	44	48
65°	12	13
75°	5	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1948.9
2.5°	1924.3
5°	1860.3
7.5°	1797.9
10°	1743.7
12.5°	1682.9
15°	1615.6
17.5°	1525.3
20°	1418.6
22.5°	1295.5
25°	1157.5
27.5°	1022.9
30°	899.8
32.5°	779.9
35°	665.0
37.5°	561.5
40°	464.7
42.5°	372.7
45°	282.4
47.5°	187.2
50°	119.9
52.5°	72.2
55°	44.3
57.5°	29.6
60°	23.0
62.5°	16.4
65°	11.5
67.5°	8.2
70°	6.6
72.5°	4.9
75°	4.9
77.5°	4.9
80°	3.3
82.5°	3.3
85°	1.6
87.5°	1.6
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)