

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: P644019

Luminaire Tested: ML5615LSWFL559FS1E - 693TBZB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 693TBZB - 900LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1260.7 lumens
Efficiency: N/A
Efficacy: 120.1 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

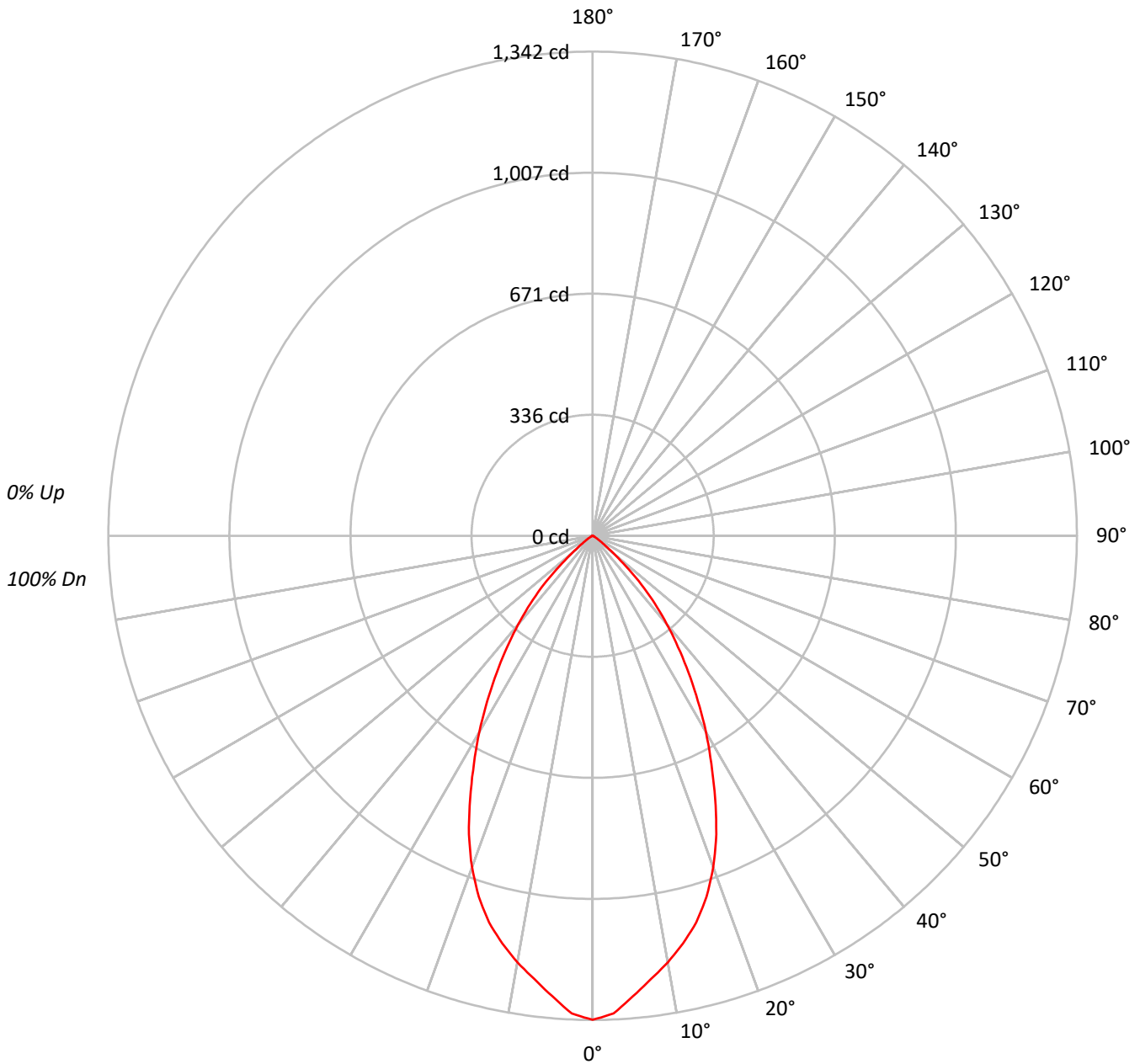
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54
9	73	63	57	52	72	62	56	52	61	56	52	60	56	52	60	55	52	50	50	50	50
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	73541
5°	70504
10°	66827
15°	62974
20°	57037
25°	48547
30°	39721
35°	30965
40°	22943
45°	14893
50°	6209
55°	2284
60°	998
65°	298
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14893 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	9.5
10°-20°	309.0	24.5
20°-30°	366.9	29.1
30°-40°	289.7	23.0
40°-50°	145.9	11.6
50°-60°	26.3	2.1
60°-70°	3.0	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°	795.8	63.1
0°-40°	1085.5	86.1
0°-60°	1257.7	99.8
0°-90°	1260.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1260.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1342	
5°	1281	120
15°	1110	309
25°	803	367
35°	463	290
45°	192	146
55°	24	26
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1341.5
2.5°	1325.6
5°	1281.2
7.5°	1239.2
10°	1200.5
12.5°	1157.3
15°	1109.6
17.5°	1049.3
20°	977.7
22.5°	895.8
25°	802.6
27.5°	711.7
30°	627.5
32.5°	543.4
35°	462.7
37.5°	388.8
40°	320.6
42.5°	254.7
45°	192.1
47.5°	123.9
50°	72.8
52.5°	38.7
55°	23.9
57.5°	15.9
60°	9.1
62.5°	4.5
65°	2.3
67.5°	1.1
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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