

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: P643314

Luminaire Tested: ML5615LSVWFL759FS1E - 693SNB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-88)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 693SNB - 900LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1221.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

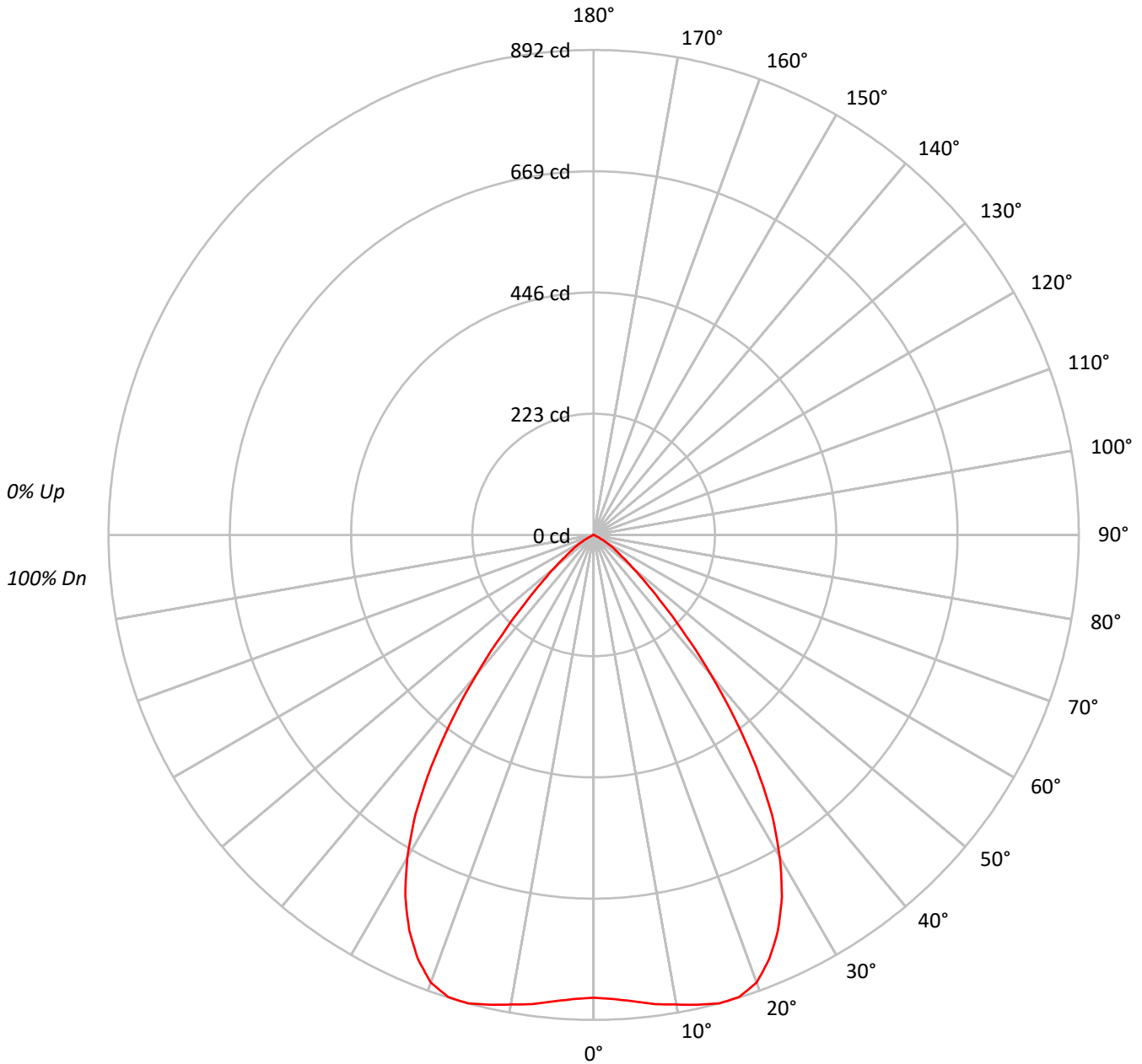
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									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	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	110	108	105	103	104	102	100	100	98	97	96	95	94	92											92																	
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84											84																	
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77											77																	
4	94	86	80	75	92	85	79	75	83	78	74	81	76	73	79	75	72	70											70																	
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64											64																	
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59											59																	
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54											54																	
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50											50																	
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46											46																	
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43											43																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	46652
5°	47397
10°	48830
15°	50625
20°	51110
25°	48517
30°	43355
35°	34874
40°	23938
45°	13939
50°	7957
55°	4788
60°	2620
65°	739
70°	176
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13939 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	6.8
10°-20°	251.3	20.6
20°-30°	365.0	29.9
30°-40°	320.3	26.2
40°-50°	147.2	12.1
50°-60°	46.8	3.8
60°-70°	7.5	0.6
70°-80°	0.1	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°	699.0	57.3
0°-40°	1019.3	83.5
0°-60°	1213.4	99.4
0°-90°	1221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1221.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	851	
5°	861	83
15°	892	251
25°	802	365
35°	521	320
45°	180	147
55°	50	47
65°	6	7
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	851.0
2.5°	854.4
5°	861.3
7.5°	870.4
10°	877.2
12.5°	885.2
15°	892.0
17.5°	890.8
20°	876.1
22.5°	844.2
25°	802.1
27.5°	749.8
30°	684.9
32.5°	609.8
35°	521.1
37.5°	426.7
40°	334.5
42.5°	250.3
45°	179.8
47.5°	129.7
50°	93.3
52.5°	66.0
55°	50.1
57.5°	36.4
60°	23.9
62.5°	11.4
65°	5.7
67.5°	1.1
70°	1.1
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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(END OF REPORT)