

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: P642953

Luminaire Tested: ML5615LSNFL259FS1E - 693BB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 693BB - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1055.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

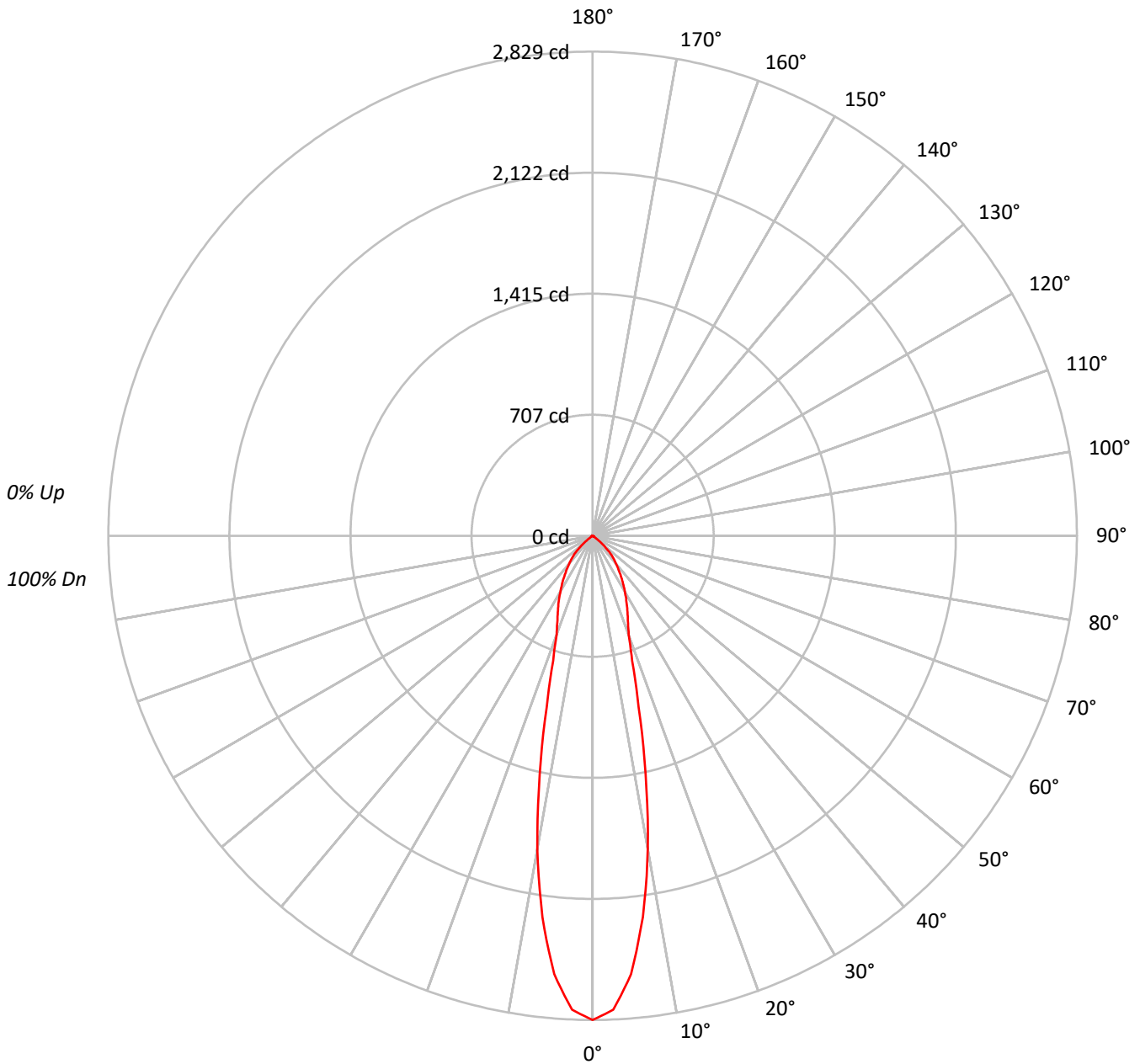
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88			88
3	103	97	92	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82			82
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77			77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73			73
6	90	81	76	72	88	80	75	71	79	74	71	78	74	70	76	73	70	69			69
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65			65
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62			62
9	79	70	64	60	78	69	64	60	68	64	60	67	63	60	67	63	60	59			59
10	76	67	61	58	75	66	61	57	65	61	57	65	60	57	64	60	57	56			56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	155092
5°	141492
10°	103461
15°	58860
20°	35831
25°	29034
30°	23826
35°	19247
40°	15207
45°	11559
50°	5859
55°	1309
60°	811
65°	415
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11559 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	21.1
10°-20°	298.0	28.2
20°-30°	221.1	21.0
30°-40°	180.4	17.1
40°-50°	110.2	10.4
50°-60°	19.9	1.9
60°-70°	3.3	0.3
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°	741.2	70.3
0°-40°	921.6	87.4
0°-60°	1051.7	99.7
0°-90°	1055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1055.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2829	
5°	2571	222
15°	1037	298
25°	480	221
35°	288	180
45°	149	110
55°	14	20
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2829.1
2.5°	2772.1
5°	2571.2
7.5°	2246.6
10°	1858.6
12.5°	1426.2
15°	1037.1
17.5°	765.4
20°	614.2
22.5°	536.0
25°	480.0
27.5°	426.1
30°	376.4
32.5°	330.9
35°	287.6
37.5°	248.4
40°	212.5
42.5°	180.8
45°	149.1
47.5°	106.8
50°	68.7
52.5°	29.6
55°	13.7
57.5°	9.5
60°	7.4
62.5°	5.3
65°	3.2
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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(END OF REPORT)