

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: P642876

Luminaire Tested: ML5615LSNFL259FS1E - 596WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 596WB - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

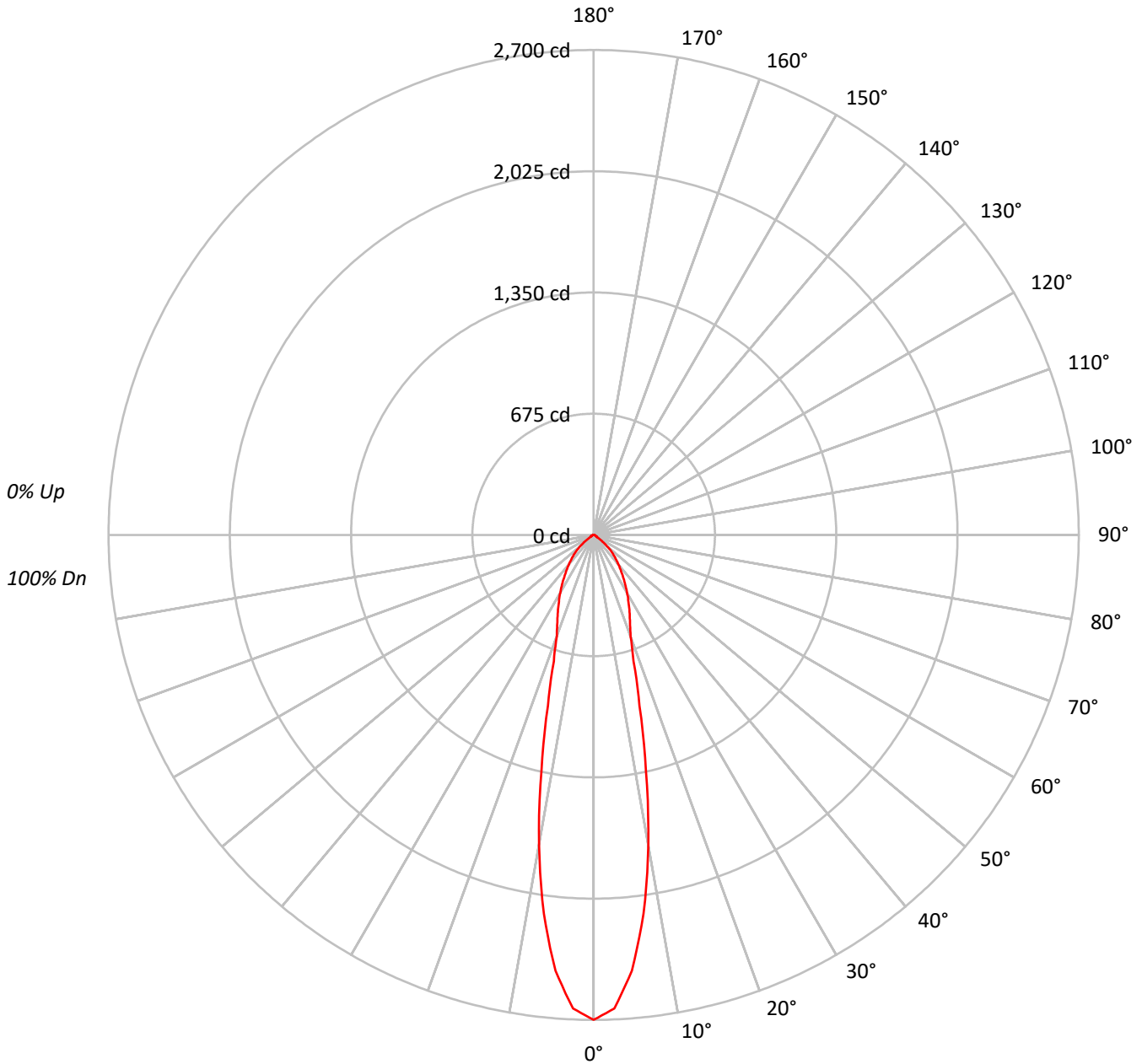
Lumens per Lamp: N/A
Luminaire Lumens: 1077.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93		
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86		
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80		
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75		
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70		
6	88	79	73	69	86	78	72	68	76	71	68	75	71	67	74	70	67	65		
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62		
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58		
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55		
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213117
5°	193003
10°	140558
15°	80524
20°	50337
25°	41121
30°	33918
35°	27475
40°	22063
45°	17527
50°	11790
55°	5368
60°	3000
65°	2802
70°	2308
75°	2135
80°	2273
85°	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17527 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	19.5
10°-20°	283.7	26.3
20°-30°	217.3	20.2
30°-40°	179.0	16.6
40°-50°	119.8	11.1
50°-60°	41.6	3.9
60°-70°	14.5	1.3
70°-80°	7.8	0.7
80°-90°	2.9	0.3
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°	711.5	66.1
0°-40°	890.5	82.7
0°-60°	1051.9	97.7
0°-90°	1077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1077.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2700	
5°	2436	210
15°	985	284
25°	472	217
35°	285	179
45°	157	120
55°	39	42
65°	15	14
75°	7	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2699.7
2.5°	2638.7
5°	2435.6
7.5°	2127.6
10°	1753.5
12.5°	1344.4
15°	985.3
17.5°	737.2
20°	599.2
22.5°	527.1
25°	472.1
27.5°	419.1
30°	372.1
32.5°	327.1
35°	285.1
37.5°	247.1
40°	214.1
42.5°	184.0
45°	157.0
47.5°	129.0
50°	96.0
52.5°	68.0
55°	39.0
57.5°	24.0
60°	19.0
62.5°	17.0
65°	15.0
67.5°	12.0
70°	10.0
72.5°	8.0
75°	7.0
77.5°	7.0
80°	5.0
82.5°	4.0
85°	3.0
87.5°	1.0
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)