

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: P642819

Luminaire Tested: ML5615LSNFL259FS1E - 593WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 593WB - 900LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

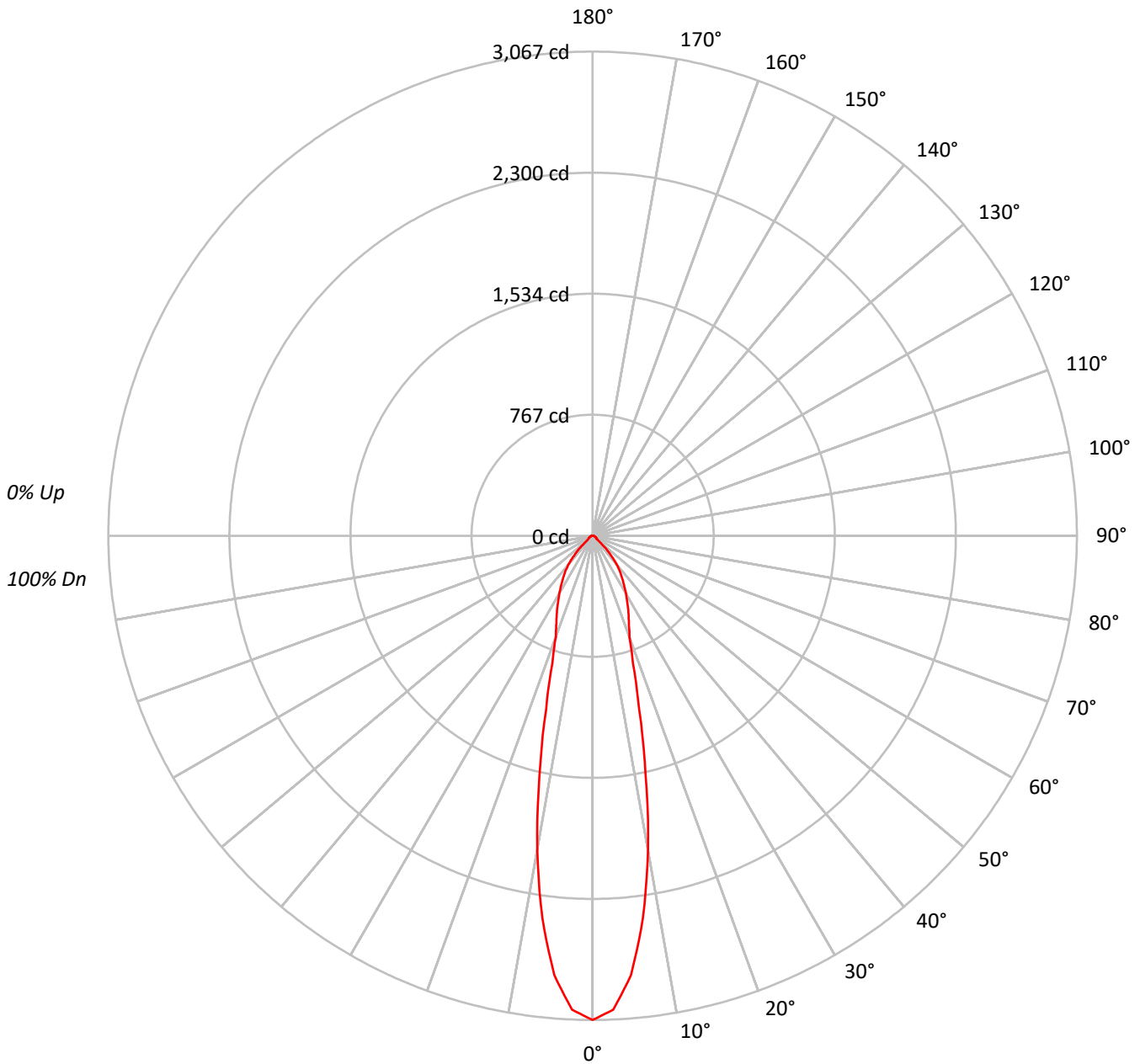
Lumens per Lamp: N/A
Luminaire Lumens: 1186.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	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	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86	86	86	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81	81	81	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75	75	75	75
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67	67	67	67
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63	63	63	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60	60	60	60
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57	57	57	57
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54	54	54	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	242104
5°	221213
10°	162041
15°	92971
20°	57335
25°	46669
30°	38366
35°	31243
40°	24619
45°	15116
50°	5588
55°	4225
60°	3947
65°	3605
70°	3670
75°	3813
80°	3637
85°	4166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15116 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	20.3
10°-20°	326.8	27.5
20°-30°	246.7	20.8
30°-40°	203.1	17.1
40°-50°	103.4	8.7
50°-60°	28.9	2.4
60°-70°	19.7	1.7
70°-80°	12.8	1.1
80°-90°	4.2	0.4
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°	814.8	68.6
0°-40°	1017.9	85.8
0°-60°	1150.2	96.9
0°-90°	1186.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3067	
5°	2792	241
15°	1138	327
25°	536	247
35°	324	203
45°	135	103
55°	31	29
65°	19	20
75°	12	13
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3066.9
2.5°	3004.3
5°	2791.6
7.5°	2442.4
10°	2021.5
12.5°	1553.9
15°	1137.6
17.5°	847.5
20°	682.5
22.5°	598.4
25°	535.8
27.5°	475.5
30°	420.9
32.5°	369.7
35°	324.2
37.5°	283.3
40°	238.9
42.5°	184.3
45°	135.4
47.5°	83.0
50°	45.5
52.5°	35.3
55°	30.7
57.5°	28.4
60°	25.0
62.5°	22.8
65°	19.3
67.5°	17.1
70°	15.9
72.5°	13.7
75°	12.5
77.5°	10.2
80°	8.0
82.5°	5.7
85°	4.6
87.5°	1.1
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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