

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: P642809

Luminaire Tested: ML5615LSNFL259FS1E - 593WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642809
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 - 1200LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

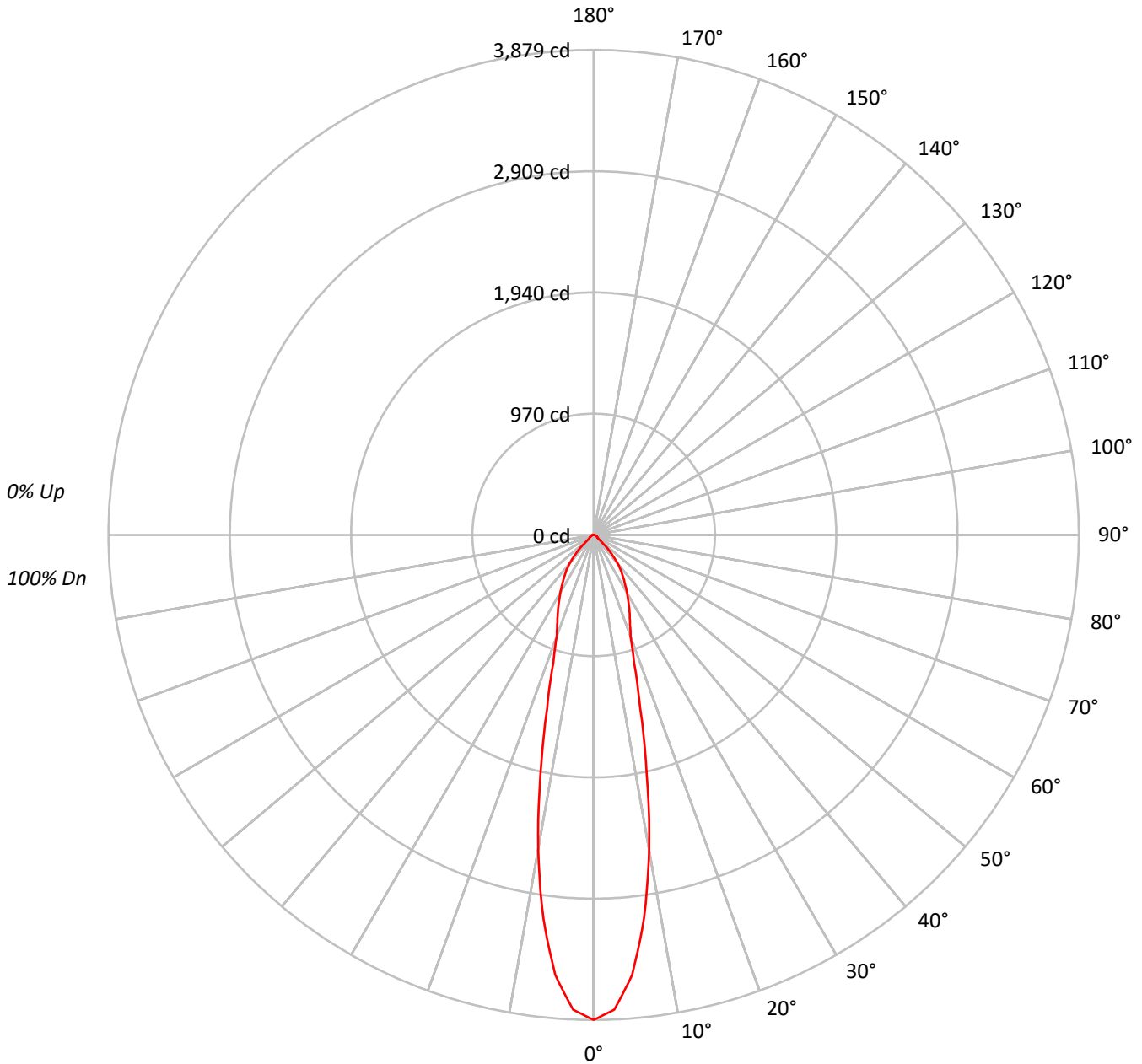
Lumens per Lamp: N/A
Luminaire Lumens: 1501.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
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									
RC	80									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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93				93															
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86															
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81				81															
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75				75															
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71				71															
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67				67															
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63				63															
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60				60															
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57				57															
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54				54															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	306196
5°	279781
10°	204934
15°	117579
20°	72515
25°	59020
30°	48521
35°	39511
40°	31131
45°	19113
50°	7062
55°	5340
60°	5005
65°	4576
70°	4639
75°	4819
80°	4591
85°	5253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19113 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	20.3
10°-20°	413.4	27.5
20°-30°	311.9	20.8
30°-40°	256.8	17.1
40°-50°	130.8	8.7
50°-60°	36.6	2.4
60°-70°	24.9	1.7
70°-80°	16.1	1.1
80°-90°	5.3	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°	1030.5	68.7
0°-40°	1287.3	85.8
0°-60°	1454.7	96.9
0°-90°	1501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3879	
5°	3531	305
15°	1439	413
25°	678	312
35°	410	257
45°	171	131
55°	39	37
65°	24	25
75°	16	16
85°	6	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3878.8
2.5°	3799.7
5°	3530.7
7.5°	3089.0
10°	2556.6
12.5°	1965.3
15°	1438.7
17.5°	1071.9
20°	863.2
22.5°	756.8
25°	677.6
27.5°	601.4
30°	532.3
32.5°	467.6
35°	410.0
37.5°	358.2
40°	302.1
42.5°	233.1
45°	171.2
47.5°	105.0
50°	57.5
52.5°	44.6
55°	38.8
57.5°	36.0
60°	31.7
62.5°	28.8
65°	24.5
67.5°	21.6
70°	20.1
72.5°	17.3
75°	15.8
77.5°	12.9
80°	10.1
82.5°	7.2
85°	5.8
87.5°	1.4
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)