

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: P642430

Luminaire Tested: ML5615LSFL409FS1E - 593BB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 593BB - 900LM - 5000K
Description: ML56 RR, 40D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

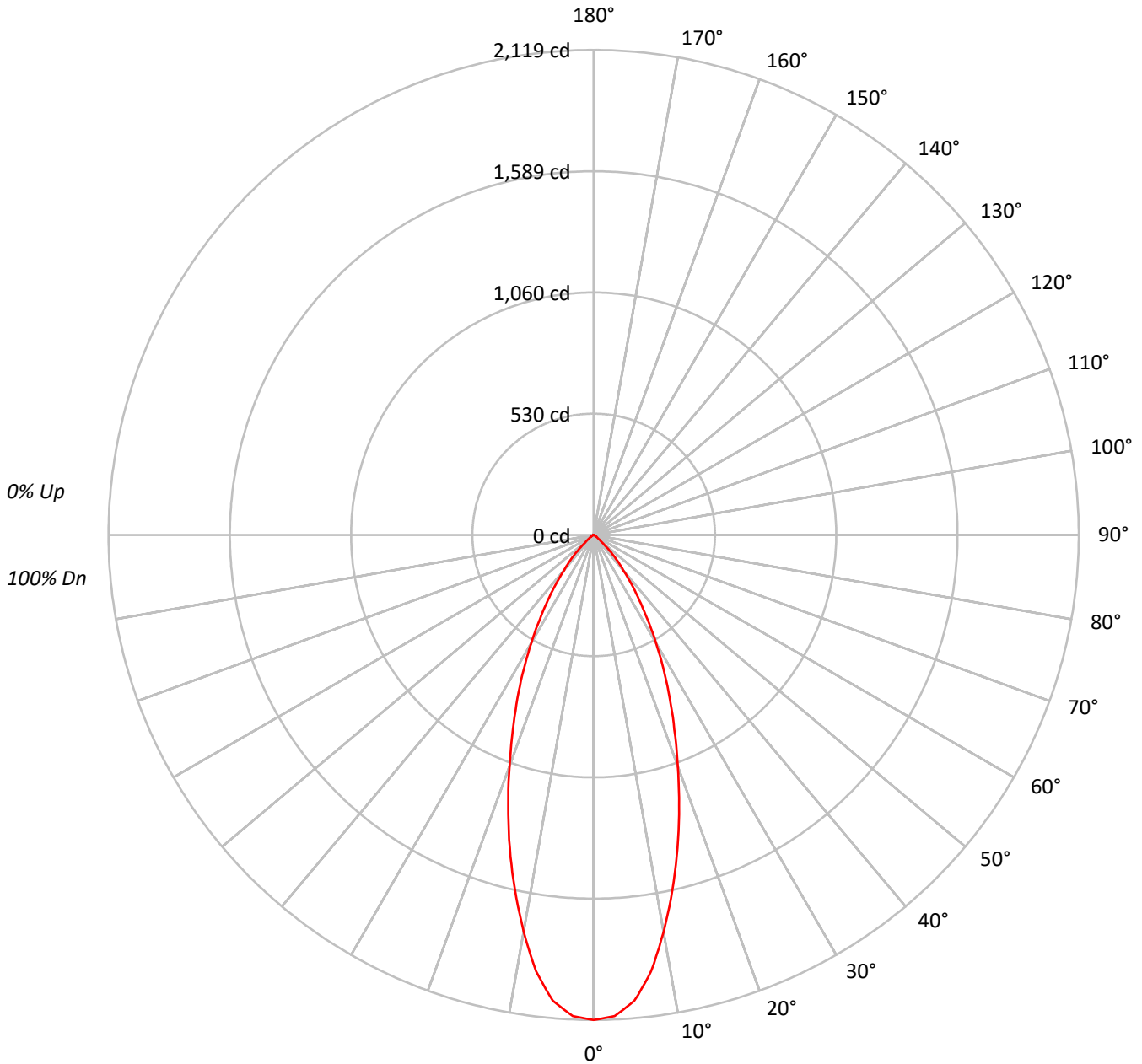
Lumens per Lamp: N/A
Luminaire Lumens: 1260.1 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P642430
CATALOG NUMBER: ML5615LSFL409FS1E - 593BB - 900LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P642430

CATALOG NUMBER: ML5615LSFL409FS1E - 593BB - 900LM - 5000K

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	92	93	91	90	88
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75	81	78	74	80	77	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	167307
5°	161900
10°	141055
15°	115724
20°	90173
25°	68505
30°	49596
35°	33459
40°	20765
45°	11945
50°	4188
55°	2353
60°	1263
65°	430
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11945 cd/sqm



TEST NUMBER: P642430

CATALOG NUMBER: ML5615LSFL409FS1E - 593BB - 900LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	14.7
10°-20°	391.3	31.1
20°-30°	360.4	28.6
30°-40°	220.5	17.5
40°-50°	82.4	6.5
50°-60°	16.7	1.3
60°-70°	2.9	0.2
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°	937.5	74.4
0°-40°	1158.0	91.9
0°-60°	1257.2	99.8
0°-90°	1260.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1260.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2119	
5°	2043	186
15°	1416	391
25°	786	360
35°	347	220
45°	107	82
55°	17	17
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P642430

CATALOG NUMBER: ML5615LSFL409FS1E - 593BB - 900LM - 5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	2119.4
2.5°	2104.6
5°	2043.1
7.5°	1923.6
10°	1759.7
12.5°	1589.0
15°	1416.0
17.5°	1240.7
20°	1073.4
22.5°	920.8
25°	786.5
27.5°	660.2
30°	544.1
32.5°	438.2
35°	347.2
37.5°	272.0
40°	201.5
42.5°	152.5
45°	107.0
47.5°	58.1
50°	34.1
52.5°	25.0
55°	17.1
57.5°	12.5
60°	8.0
62.5°	5.7
65°	2.3
67.5°	0.0
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)