

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: P642400

Luminaire Tested: ML5615LSFL409FS1E - 592SC - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 592SC - 900LM - 5000K
Description: ML56 RR, 40D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

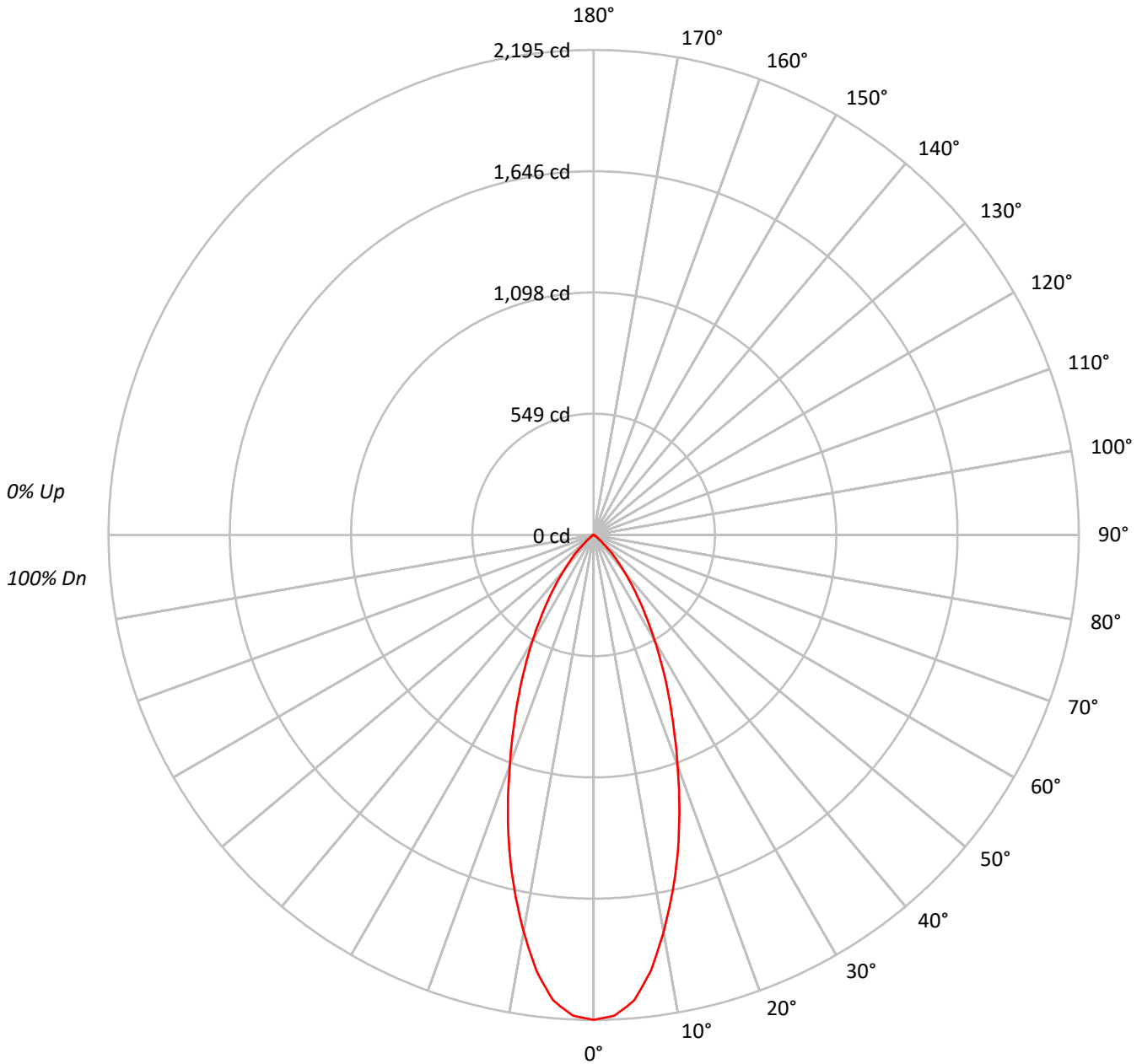
Lumens per Lamp: N/A
Luminaire Lumens: 1297.6 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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: P642400
CATALOG NUMBER: ML5615LSFL409FS1E - 592SC - 900LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P642400

CATALOG NUMBER: ML5615LSFL409FS1E - 592SC - 900LM - 5000K

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																			
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	94	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	80	84	81	79	77																			
5	94	86	80	76	92	85	80	76	83	79	75	81	78	75	80	77	74	72																			
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	70	68																			
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64																			
8	82	72	67	63	80	72	67	63	71	66	63	70	65	62	69	65	62	61																			
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57																			
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	173275
5°	167534
10°	146121
15°	120521
20°	93105
25°	69873
30°	50307
35°	34327
40°	21455
45°	12191
50°	4335
55°	2505
60°	1437
65°	430
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12191 cd/sqm



TEST NUMBER: P642400

CATALOG NUMBER: ML5615LSFL409FS1E - 592SC - 900LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	14.8
10°-20°	406.4	31.3
20°-30°	368.5	28.4
30°-40°	225.1	17.3
40°-50°	85.1	6.6
50°-60°	17.3	1.3
60°-70°	3.1	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°	967.1	74.5
0°-40°	1192.2	91.9
0°-60°	1294.5	99.8
0°-90°	1297.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2195	
5°	2114	192
15°	1475	406
25°	802	369
35°	356	225
45°	109	85
55°	18	17
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P642400

CATALOG NUMBER: ML5615LSFL409FS1E - 592SC - 900LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2195.0
2.5°	2177.9
5°	2114.2
7.5°	1987.9
10°	1822.9
12.5°	1651.1
15°	1474.7
17.5°	1289.2
20°	1108.3
22.5°	945.6
25°	802.2
27.5°	671.4
30°	551.9
32.5°	446.1
35°	356.2
37.5°	277.6
40°	208.2
42.5°	157.0
45°	109.2
47.5°	61.4
50°	35.3
52.5°	25.0
55°	18.2
57.5°	12.5
60°	9.1
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)