

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: P642566

Luminaire Tested: ML5615LSFL409FS1E - 692SC - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 692SC - 1200LM - 2700K
Description: ML56 RR, 40D TIR OPTIC, 6" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

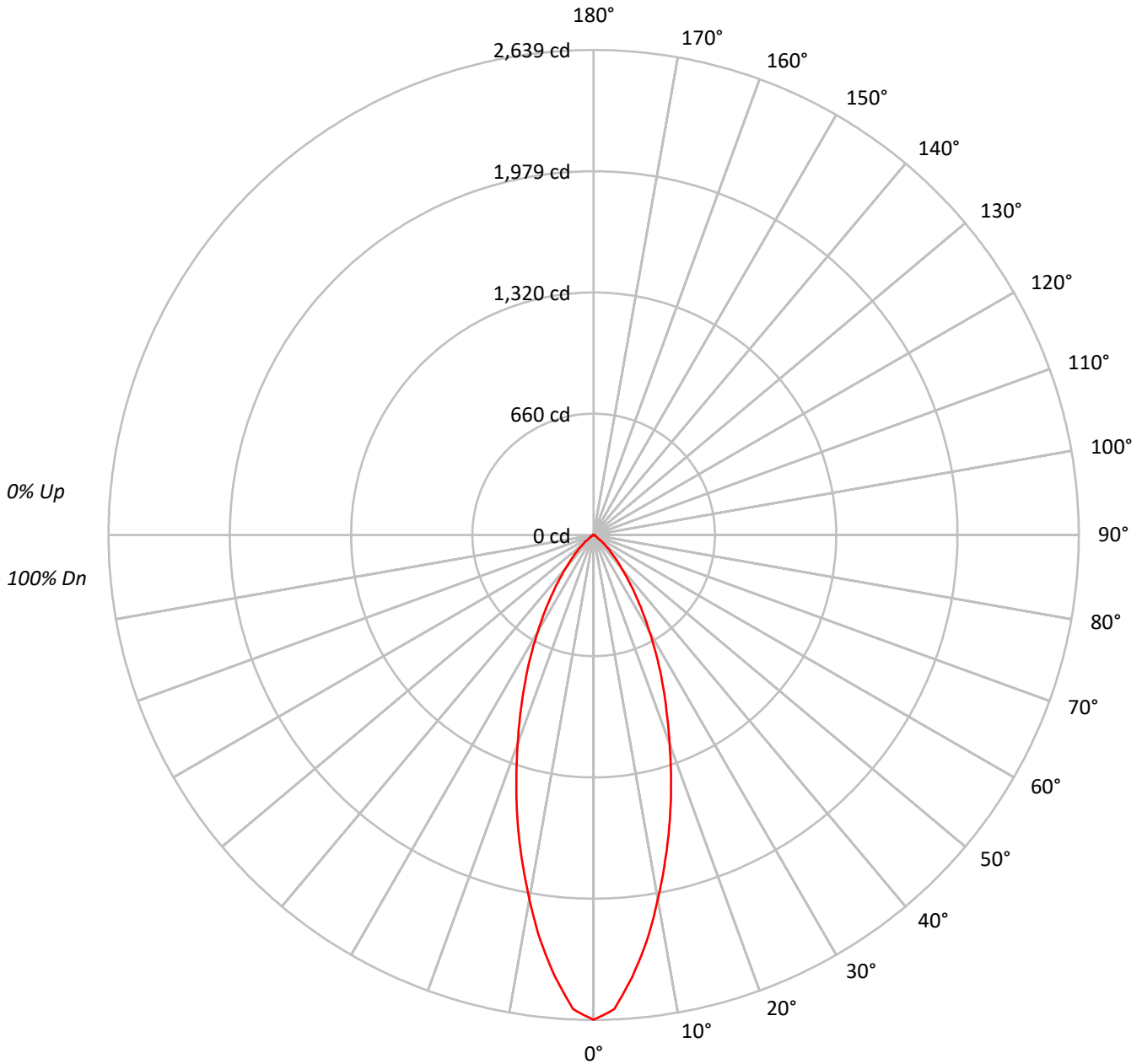
Lumens per Lamp: N/A
Luminaire Lumens: 1448.1 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.66
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P642566
CATALOG NUMBER: ML5615LSFL409FS1E - 692SC - 1200LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P642566

CATALOG NUMBER: ML5615LSFL409FS1E - 692SC - 1200LM - 2700K

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	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																			
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82																			
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72																			
6	89	81	75	71	88	80	74	71	78	74	70	77	73	70	76	72	69	68																			
7	85	76	70	66	84	76	70	66	74	69	66	73	69	66	72	68	65	64																			
8	81	72	66	62	80	72	66	62	71	66	62	69	65	62	69	65	62	60																			
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57																			
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	144665
5°	132753
10°	112039
15°	90892
20°	70409
25°	53332
30°	38436
35°	26247
40°	16839
45°	10296
50°	5399
55°	2055
60°	1250
65°	493
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10296 cd/sqm



TEST NUMBER: P642566

CATALOG NUMBER: ML5615LSFL409FS1E - 692SC - 1200LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.0	15.1
10°-20°	442.9	30.6
20°-30°	404.3	27.9
30°-40°	248.6	17.2
40°-50°	106.7	7.4
50°-60°	23.6	1.6
60°-70°	4.2	0.3
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°	1065.1	73.6
0°-40°	1313.7	90.7
0°-60°	1444.0	99.7
0°-90°	1448.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1448.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2639	
5°	2412	218
15°	1602	443
25°	882	404
35°	392	249
45°	133	107
55°	22	24
65°	4	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P642566

CATALOG NUMBER: ML5615LSFL409FS1E - 692SC - 1200LM - 2700K

CANDELA DISTRIBUTION (FULL):

0°	
0°	2638.9
2.5°	2583.2
5°	2412.4
7.5°	2225.2
10°	2012.7
12.5°	1805.2
15°	1601.5
17.5°	1397.9
20°	1206.9
22.5°	1036.1
25°	881.7
27.5°	738.8
30°	607.2
32.5°	492.1
35°	392.2
37.5°	306.1
40°	235.3
42.5°	180.9
45°	132.8
47.5°	97.4
50°	63.3
52.5°	31.6
55°	21.5
57.5°	16.4
60°	11.4
62.5°	7.6
65°	3.8
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)