

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: P642896

Luminaire Tested: ML5615LSNFL259FS1E - 692H - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 692H - 1200LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

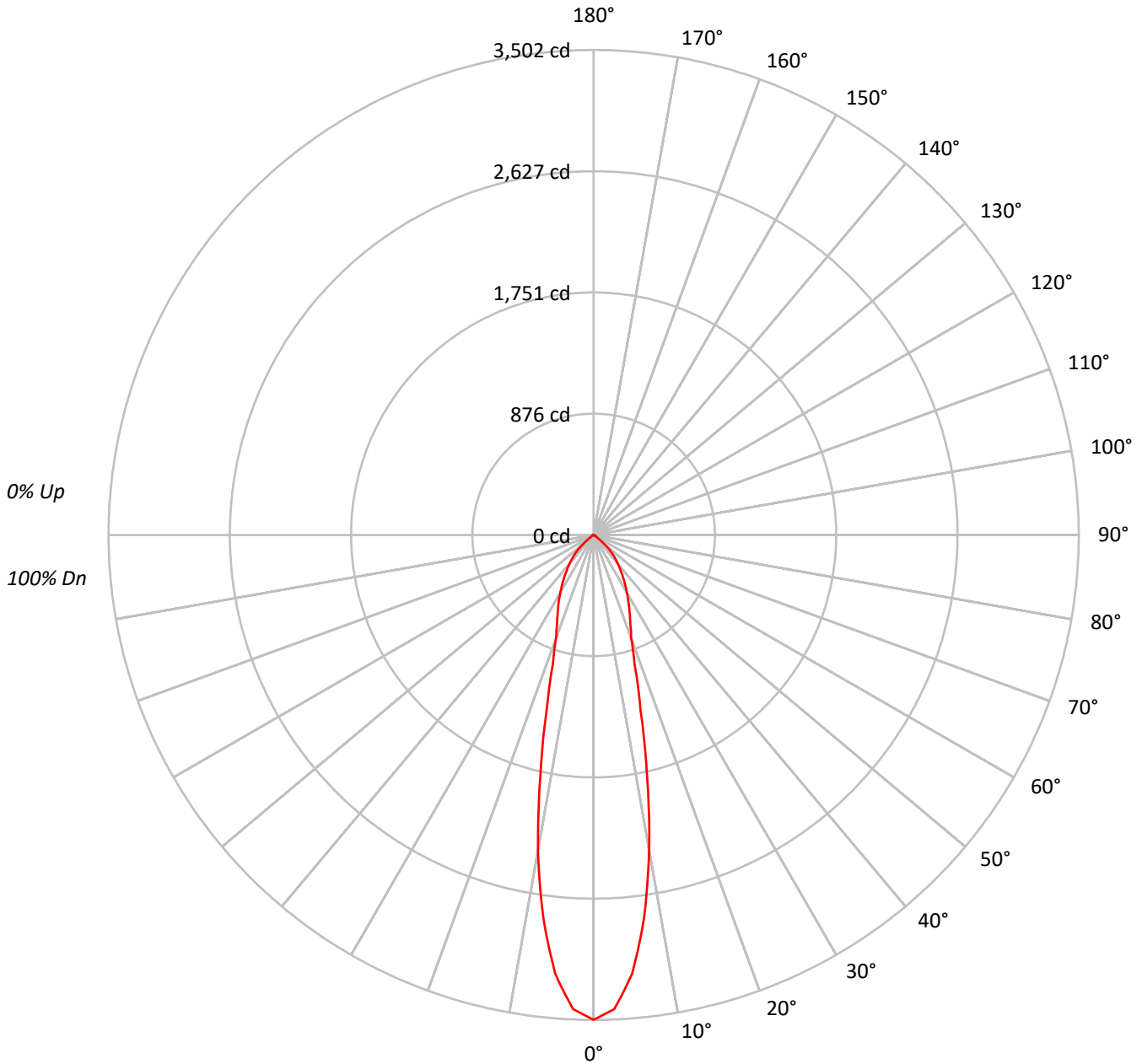
Lumens per Lamp: N/A
Luminaire Lumens: 1341.9 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P642896
CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1200LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P642896

CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1200LM - 2700K

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	
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94			94	
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			88	
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82			82	
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77			77	
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72			72	
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68			68	
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64			64	
8	82	73	67	63	81	72	67	63	71	66	63	70	66	62	69	65	62	61			61	
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58			58	
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55			55	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	191964
5°	175082
10°	128660
15°	74382
20°	46198
25°	37115
30°	30353
35°	24554
40°	19372
45°	14614
50°	7556
55°	2179
60°	1392
65°	817
70°	401
75°	275
80°	410
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14614 cd/sqm



TEST NUMBER: P642896

CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1200LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.4	20.5
10°-20°	376.1	28.0
20°-30°	283.2	21.1
30°-40°	230.0	17.1
40°-50°	140.4	10.5
50°-60°	28.9	2.2
60°-70°	6.2	0.5
70°-80°	1.5	0.1
80°-90°	0.2	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°	934.8	69.7
0°-40°	1164.7	86.8
0°-60°	1334.0	99.4
0°-90°	1341.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1341.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3502	
5°	3182	275
15°	1311	376
25°	614	283
35°	367	230
45°	188	140
55°	23	29
65°	6	6
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P642896

CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1200LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3501.7
2.5°	3427.1
5°	3181.6
7.5°	2789.5
10°	2311.3
12.5°	1779.9
15°	1310.6
17.5°	981.7
20°	791.9
22.5°	689.5
25°	613.6
27.5°	544.0
30°	479.5
32.5°	422.5
35°	366.9
37.5°	316.3
40°	270.7
42.5°	230.2
45°	188.5
47.5°	136.6
50°	88.6
52.5°	41.7
55°	22.8
57.5°	16.4
60°	12.7
62.5°	8.9
65°	6.3
67.5°	2.5
70°	2.5
72.5°	1.3
75°	1.3
77.5°	1.3
80°	1.3
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)