

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: P642930

Luminaire Tested: ML5615LSNFL259FS1E - 692W - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 692W - 1200LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

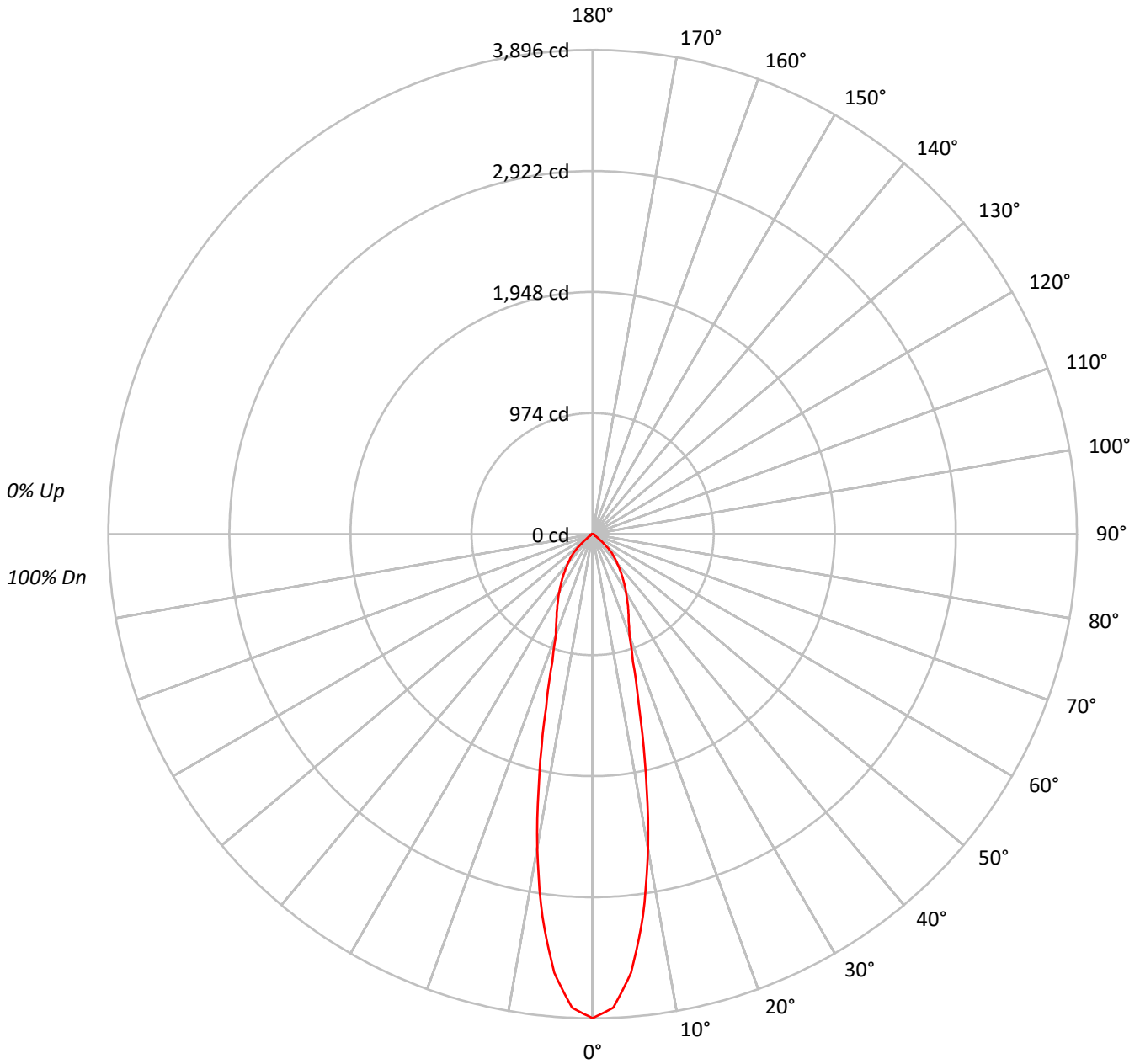
Lumens per Lamp: N/A
Luminaire Lumens: 1539.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P642930
CATALOG NUMBER: ML5615LSNFL259FS1E - 692W - 1200LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P642930

CATALOG NUMBER: ML5615LSNFL259FS1E - 692W - 1200LM - 5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																												
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																												
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																												
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																												
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70																												
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66																												
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62																												
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59																												
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	57	56																												
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213557
5°	194904
10°	142967
15°	81941
20°	50504
25°	41053
30°	33955
35°	27713
40°	22227
45°	17281
50°	9569
55°	3708
60°	2993
65°	2607
70°	2308
75°	2436
80°	2273
85°	1824

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17281 cd/sqm



TEST NUMBER: P642930

CATALOG NUMBER: ML5615LSNFL259FS1E - 692W - 1200LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	19.9
10°-20°	415.2	27.0
20°-30°	313.1	20.3
30°-40°	259.5	16.9
40°-50°	165.5	10.8
50°-60°	44.0	2.9
60°-70°	20.4	1.3
70°-80°	11.6	0.8
80°-90°	3.3	0.2
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°	1034.6	67.2
0°-40°	1294.2	84.1
0°-60°	1503.7	97.7
0°-90°	1539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1539.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3896	
5°	3542	306
15°	1444	415
25°	679	313
35°	414	260
45°	223	166
55°	39	44
65°	20	20
75°	12	12
85°	3	3
90°	0	



TEST NUMBER: P642930

CATALOG NUMBER: ML5615LSNFL259FS1E - 692W - 1200LM - 5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	3895.6
2.5°	3815.1
5°	3541.8
7.5°	3101.8
10°	2568.3
12.5°	1975.8
15°	1443.8
17.5°	1077.1
20°	865.7
22.5°	759.3
25°	678.7
27.5°	604.0
30°	536.4
32.5°	473.1
35°	414.1
37.5°	359.5
40°	310.6
42.5°	266.0
45°	222.9
47.5°	165.4
50°	112.2
52.5°	59.0
55°	38.8
57.5°	31.6
60°	27.3
62.5°	24.4
65°	20.1
67.5°	17.3
70°	14.4
72.5°	12.9
75°	11.5
77.5°	8.6
80°	7.2
82.5°	4.3
85°	2.9
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

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)