

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: P643031

Luminaire Tested: ML5615LSNFL259FS1E - 696WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 696WB - 1200LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

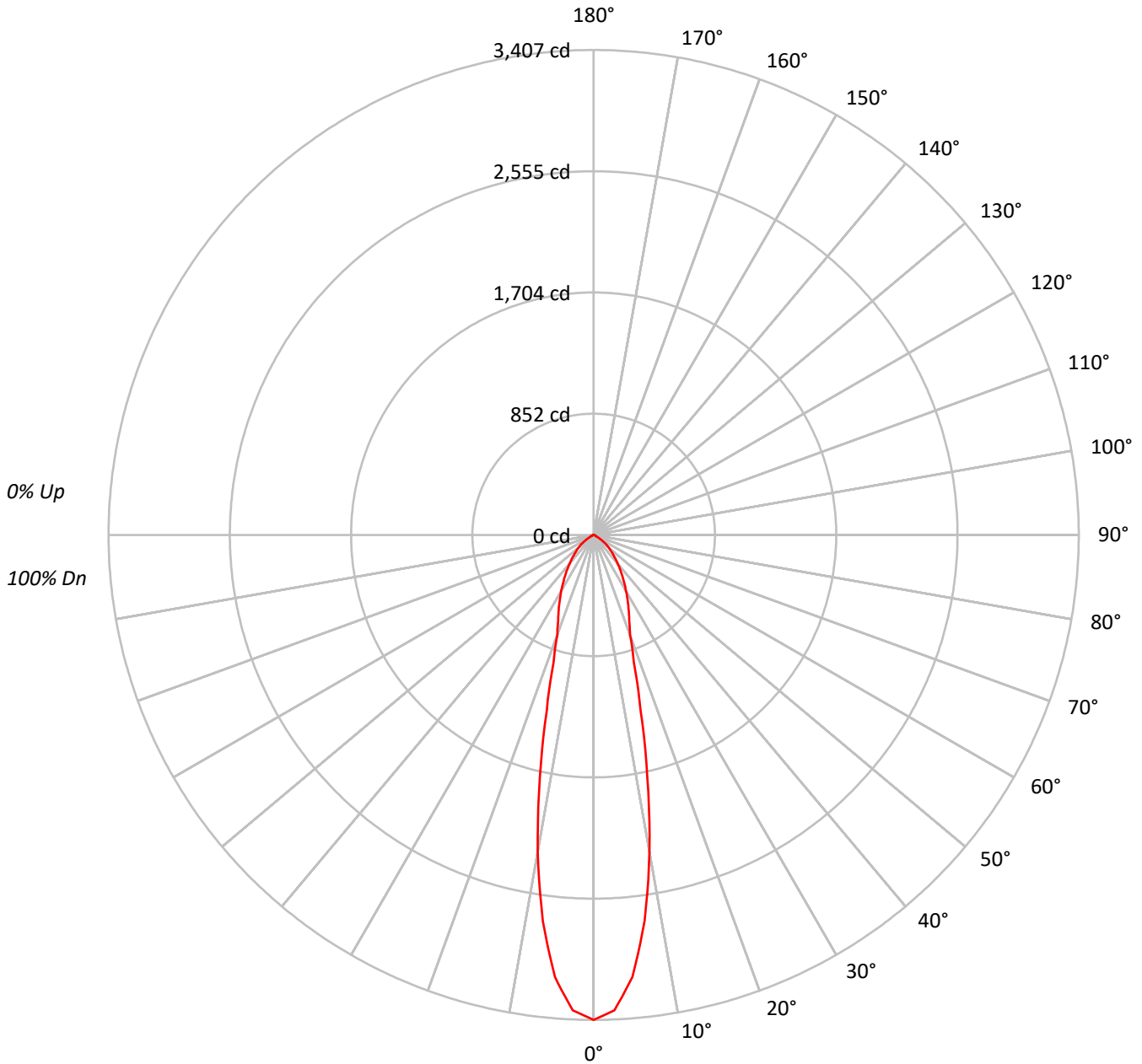
Lumens per Lamp: N/A
Luminaire Lumens: 1374.8 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P643031
CATALOG NUMBER: ML5615LSNFL259FS1E - 696WB - 1200LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P643031

CATALOG NUMBER: ML5615LSNFL259FS1E - 696WB - 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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80			80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74			74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69			69
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65			65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			61
8	80	70	64	60	78	70	64	60	69	63	60	68	63	60	67	62	59	58			58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55			55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	186794
5°	171571
10°	125771
15°	72259
20°	43590
25°	35179
30°	28815
35°	23356
40°	18728
45°	14901
50°	11752
55°	8220
60°	3607
65°	2127
70°	1619
75°	1334
80°	1200
85°	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14901 cd/sqm



TEST NUMBER: P643031

CATALOG NUMBER: ML5615LSNFL259FS1E - 696WB - 1200LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.6	19.6
10°-20°	364.3	26.5
20°-30°	268.2	19.5
30°-40°	219.1	15.9
40°-50°	149.7	10.9
50°-60°	76.4	5.6
60°-70°	18.1	1.3
70°-80°	6.8	0.5
80°-90°	2.6	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°	902.1	65.6
0°-40°	1121.2	81.6
0°-60°	1347.3	98.0
0°-90°	1374.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1374.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3407	
5°	3118	270
15°	1273	364
25°	582	268
35°	349	219
45°	192	150
55°	86	76
65°	16	18
75°	6	7
85°	2	3
90°	0	



TEST NUMBER: P643031

CATALOG NUMBER: ML5615LSNFL259FS1E - 696WB - 1200LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3407.4
2.5°	3342.9
5°	3117.8
7.5°	2736.0
10°	2259.4
12.5°	1743.5
15°	1273.2
17.5°	936.9
20°	747.2
22.5°	652.4
25°	581.6
27.5°	515.8
30°	455.2
32.5°	399.5
35°	349.0
37.5°	303.4
40°	261.7
42.5°	225.1
45°	192.2
47.5°	163.1
50°	137.8
52.5°	115.1
55°	86.0
57.5°	58.2
60°	32.9
62.5°	21.5
65°	16.4
67.5°	13.9
70°	10.1
72.5°	7.6
75°	6.3
77.5°	5.1
80°	3.8
82.5°	3.8
85°	2.5
87.5°	1.3
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)