

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: P642705

Luminaire Tested: ML5615LSNFL259FS1E - 591WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 591WB - 1200LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

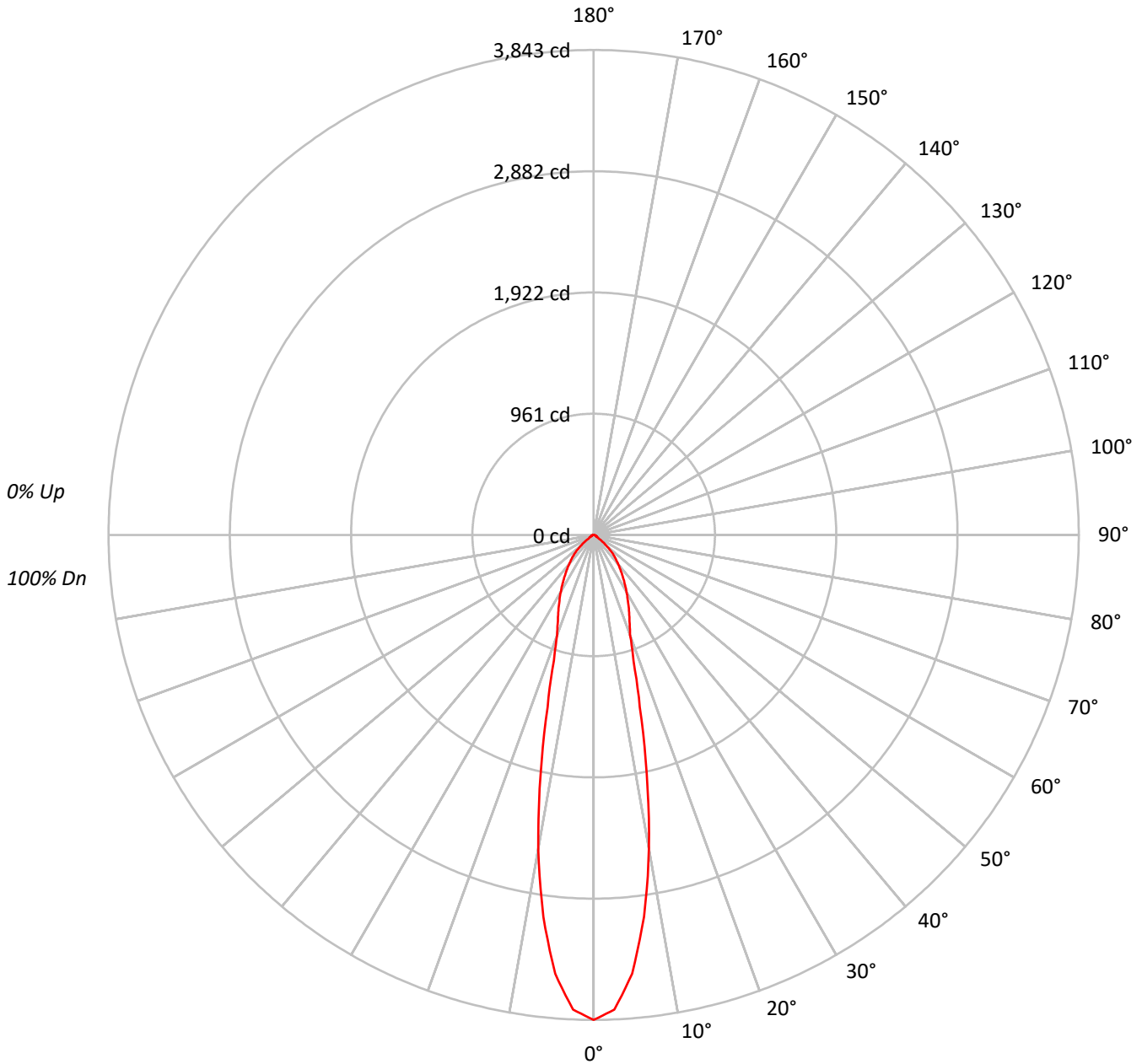
Lumens per Lamp: N/A
Luminaire Lumens: 1527.6 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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: P642705
CATALOG NUMBER: ML5615LSNFL259FS1E - 591WB - 1200LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P642705

CATALOG NUMBER: ML5615LSNFL259FS1E - 591WB - 1200LM - 5000K

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				
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93				
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86				
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80				
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75				
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70				
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66				
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62				
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58				
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56				
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	303394
5°	276620
10°	202425
15°	115241
20°	70952
25°	57653
30°	47482
35°	38548
40°	31142
45°	24896
50°	16260
55°	7129
60°	4547
65°	4035
70°	3647
75°	3508
80°	3910
85°	3895

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24896 cd/sqm



TEST NUMBER: P642705

CATALOG NUMBER: ML5615LSNFL259FS1E - 591WB - 1200LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.7	19.8
10°-20°	405.9	26.6
20°-30°	304.8	20.0
30°-40°	251.3	16.5
40°-50°	167.6	11.0
50°-60°	56.9	3.7
60°-70°	21.9	1.4
70°-80°	12.4	0.8
80°-90°	5.1	0.3
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°	1012.5	66.3
0°-40°	1263.8	82.7
0°-60°	1488.2	97.4
0°-90°	1527.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1527.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3843	
5°	3491	302
15°	1410	406
25°	662	305
35°	400	251
45°	223	168
55°	52	57
65°	22	22
75°	12	12
85°	4	5
90°	0	



TEST NUMBER: P642705

CATALOG NUMBER: ML5615LSNFL259FS1E - 591WB - 1200LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3843.3
2.5°	3764.1
5°	3490.8
7.5°	3051.9
10°	2525.3
12.5°	1938.2
15°	1410.1
17.5°	1046.1
20°	844.6
22.5°	739.6
25°	661.9
27.5°	587.1
30°	520.9
32.5°	457.6
35°	400.0
37.5°	348.2
40°	302.2
42.5°	260.4
45°	223.0
47.5°	174.1
50°	132.4
52.5°	90.7
55°	51.8
57.5°	34.5
60°	28.8
62.5°	25.9
65°	21.6
67.5°	18.7
70°	15.8
72.5°	13.0
75°	11.5
77.5°	10.1
80°	8.6
82.5°	7.2
85°	4.3
87.5°	2.9
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)