

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: P642730

Luminaire Tested: ML5615LSNFL259FS1E - 592H - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 592H - 900LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

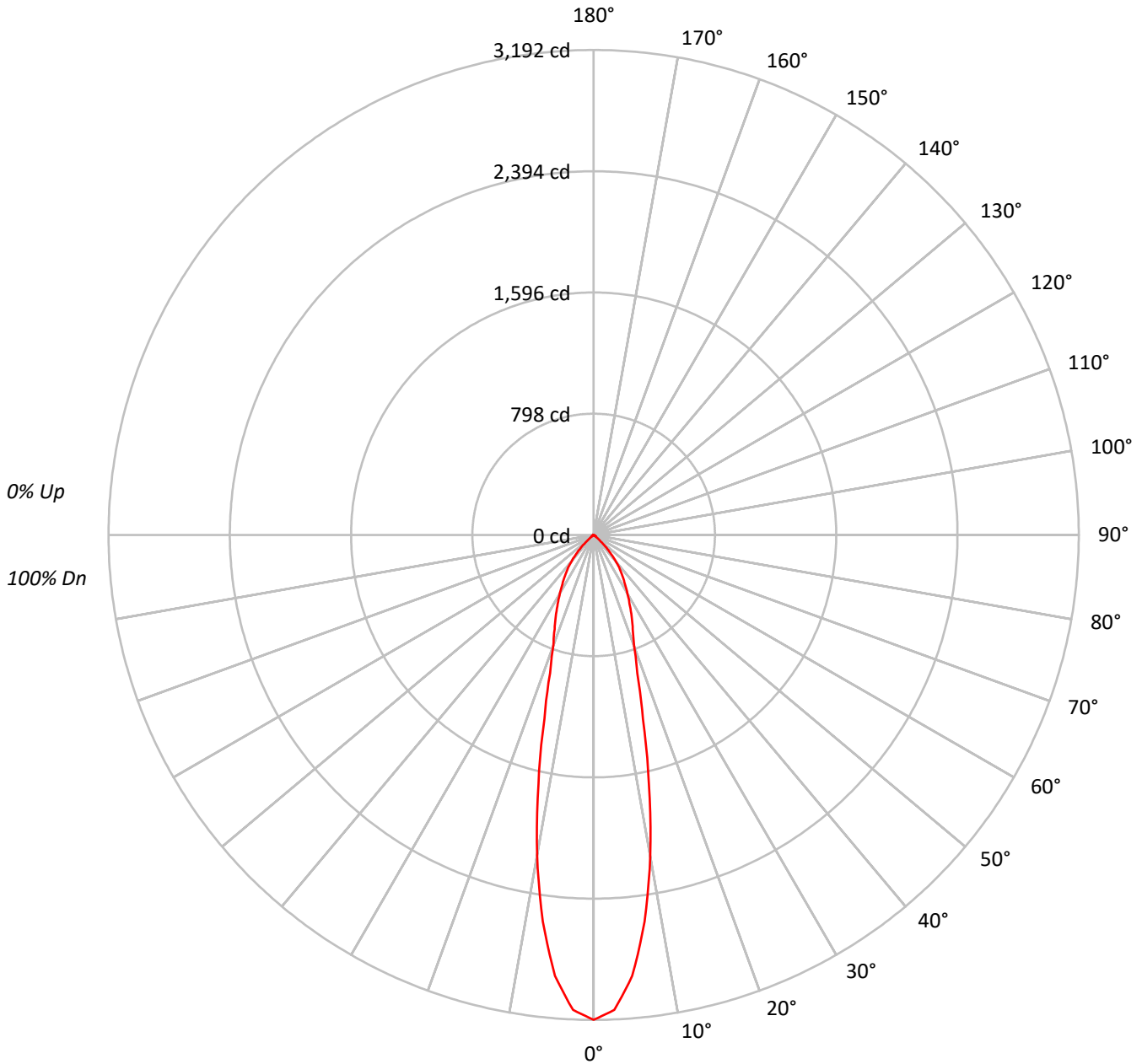
Lumens per Lamp: N/A
Luminaire Lumens: 1196.4 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.46
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: P642730
CATALOG NUMBER: ML5615LSNFL259FS1E - 592H - 900LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P642730

CATALOG NUMBER: ML5615LSNFL259FS1E - 592H - 900LM - 5000K

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	112	109	107	105	105	104	102	101	100	99	98	97	96	94																			
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89																			
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83																			
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79																			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74																			
6	91	82	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70																			
7	87	78	73	69	86	78	72	69	76	72	68	75	71	68	74	71	68	66																			
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63																			
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60																			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	61	59	57																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	251940
5°	230889
10°	171948
15°	102541
20°	65047
25°	51373
30°	40481
35°	31715
40°	23588
45°	13218
50°	3353
55°	1720
60°	1263
65°	430
70°	254
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13218 cd/sqm



TEST NUMBER: P642730

CATALOG NUMBER: ML5615LSNFL259FS1E - 592H - 900LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.1	21.2
10°-20°	358.7	30.0
20°-30°	271.2	22.7
30°-40°	206.4	17.3
40°-50°	90.7	7.6
50°-60°	12.7	1.1
60°-70°	3.1	0.3
70°-80°	0.4	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°	883.0	73.8
0°-40°	1089.4	91.1
0°-60°	1192.9	99.7
0°-90°	1196.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3192	
5°	2914	253
15°	1255	359
25°	590	271
35°	329	206
45°	118	91
55°	12	13
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P642730

CATALOG NUMBER: ML5615LSNFL259FS1E - 592H - 900LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3191.5
2.5°	3128.9
5°	2913.7
7.5°	2566.4
10°	2145.1
12.5°	1679.4
15°	1254.7
17.5°	954.1
20°	774.3
22.5°	671.8
25°	589.8
27.5°	511.2
30°	444.1
32.5°	382.6
35°	329.1
37.5°	282.4
40°	228.9
42.5°	170.8
45°	118.4
47.5°	62.6
50°	27.3
52.5°	17.1
55°	12.5
57.5°	10.2
60°	8.0
62.5°	4.6
65°	2.3
67.5°	1.1
70°	1.1
72.5°	1.1
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)