

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: P642897

Luminaire Tested: ML5615LSNFL259FS1E - 692H - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642897
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

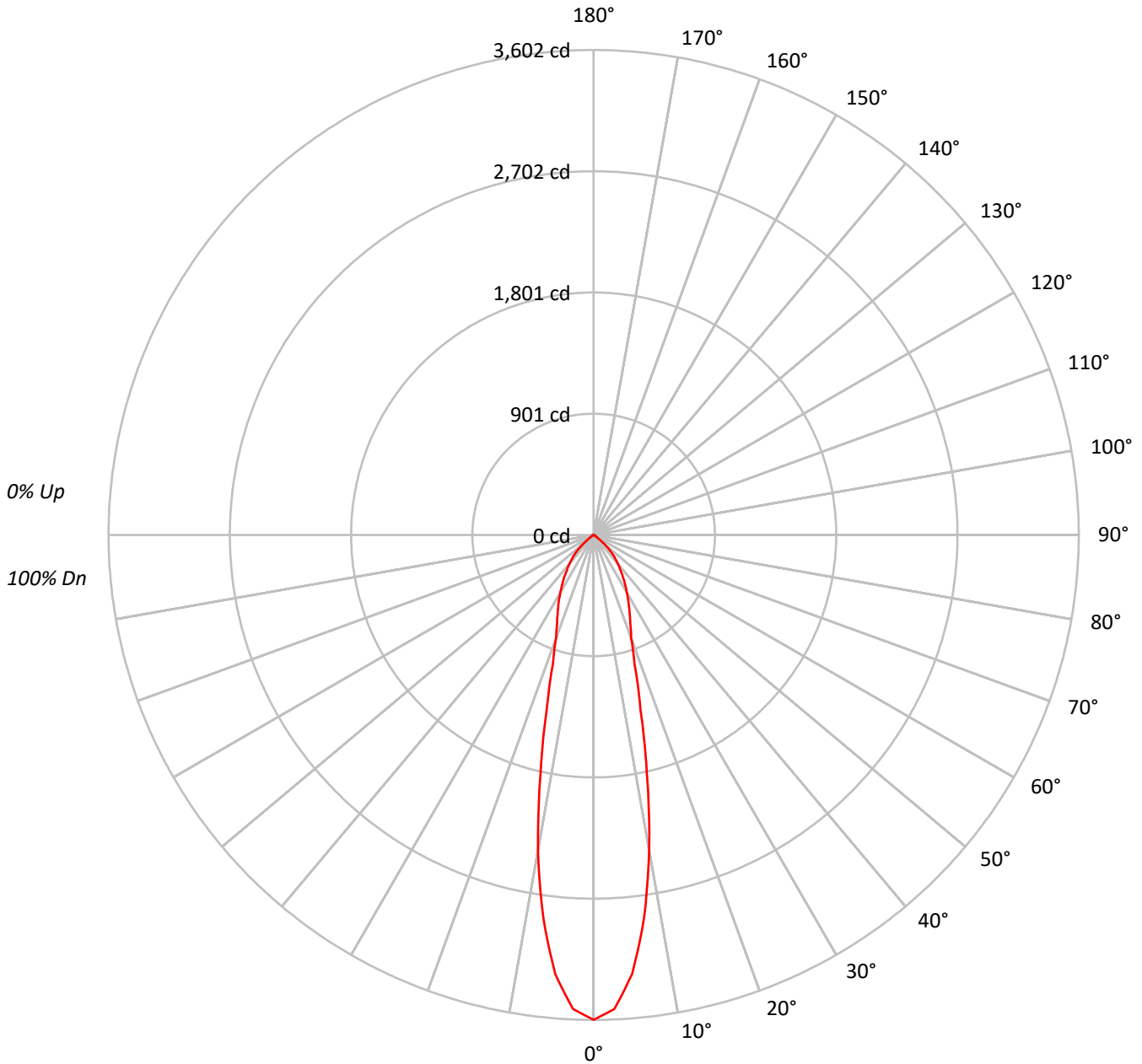
Lumens per Lamp: N/A
Luminaire Lumens: 1380.2 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	197446
5°	180084
10°	132334
15°	76510
20°	47522
25°	38174
30°	31220
35°	25257
40°	19930
45°	15033
50°	7769
55°	2236
60°	1425
65°	843
70°	417
75°	275
80°	410
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15033 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.3	20.5
10°-20°	386.9	28.0
20°-30°	291.3	21.1
30°-40°	236.6	17.1
40°-50°	144.4	10.5
50°-60°	29.7	2.2
60°-70°	6.4	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°	961.5	69.7
0°-40°	1198.0	86.8
0°-60°	1372.1	99.4
0°-90°	1380.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3602	
5°	3272	283
15°	1348	387
25°	631	291
35°	377	237
45°	194	144
55°	23	30
65°	6	6
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3601.7
2.5°	3525.0
5°	3272.5
7.5°	2869.2
10°	2377.3
12.5°	1830.8
15°	1348.1
17.5°	1009.7
20°	814.6
22.5°	709.2
25°	631.1
27.5°	559.5
30°	493.2
32.5°	434.6
35°	377.4
37.5°	325.3
40°	278.5
42.5°	236.8
45°	193.9
47.5°	140.5
50°	91.1
52.5°	42.9
55°	23.4
57.5°	16.9
60°	13.0
62.5°	9.1
65°	6.5
67.5°	2.6
70°	2.6
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

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— 0°-180°

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(END OF REPORT)