

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: P640371

Luminaire Tested: ML5609LSNFL25D2W1E - 692H - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640371
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: ML5609LSNFL25D2W1E - 692H - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

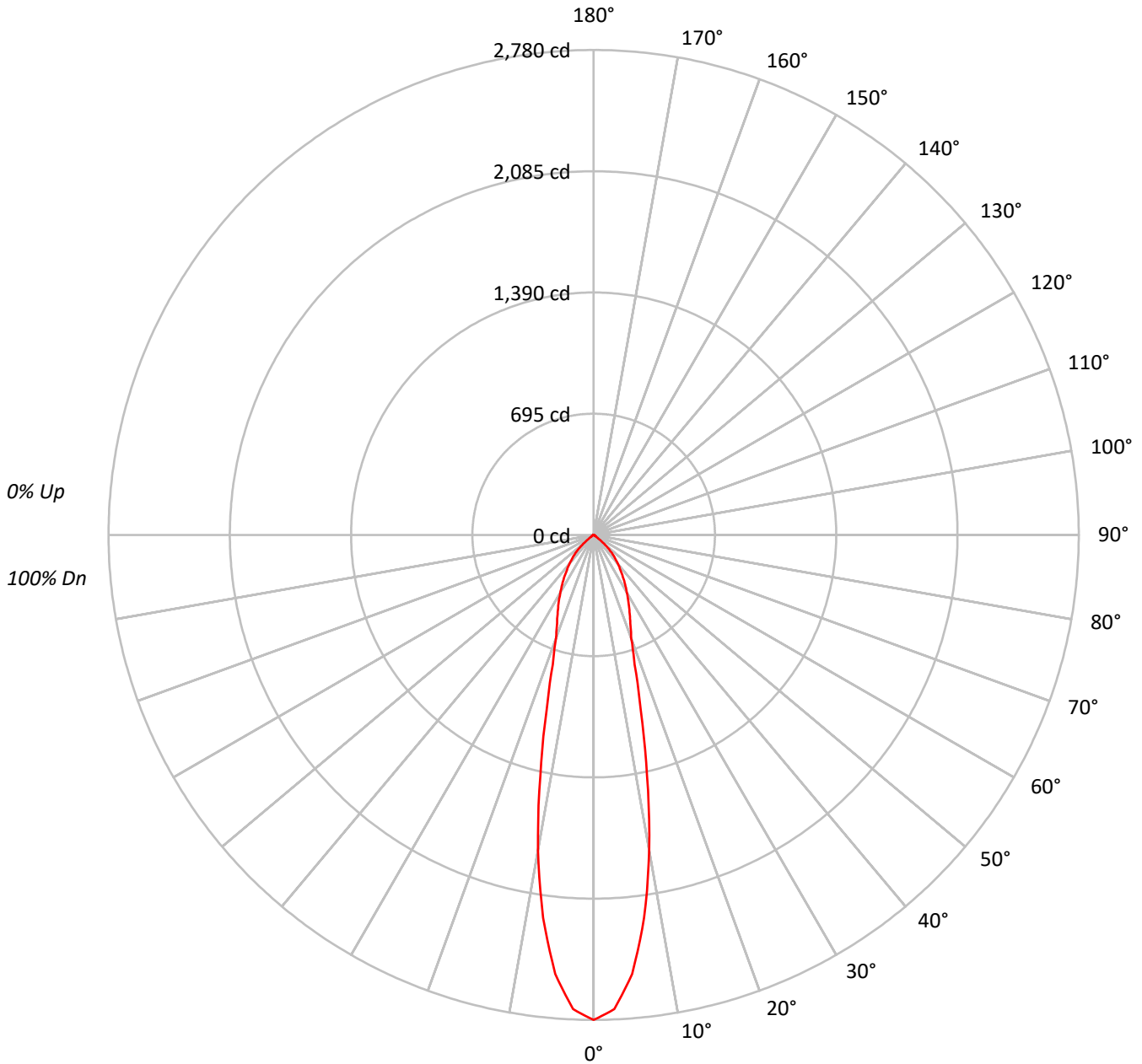
Lumens per Lamp: N/A
Luminaire Lumens: 1065.4 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (Ain): 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	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°	152411
5°	139010
10°	102152
15°	59058
20°	36683
25°	29463
30°	24099
35°	19495
40°	15379
45°	11606
50°	5996
55°	1730
60°	1096
65°	649
70°	321
75°	212
80°	316
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11606 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	20.5
10°-20°	298.7	28.0
20°-30°	224.8	21.1
30°-40°	182.6	17.1
40°-50°	111.4	10.5
50°-60°	23.0	2.2
60°-70°	4.9	0.5
70°-80°	1.2	0.1
80°-90°	0.1	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°	742.2	69.7
0°-40°	924.7	86.8
0°-60°	1059.2	99.4
0°-90°	1065.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2780	
5°	2526	219
15°	1041	299
25°	487	225
35°	291	183
45°	150	111
55°	18	23
65°	5	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2780.2
2.5°	2721.0
5°	2526.1
7.5°	2214.7
10°	1835.1
12.5°	1413.2
15°	1040.6
17.5°	779.4
20°	628.8
22.5°	547.4
25°	487.1
27.5°	431.9
30°	380.7
32.5°	335.5
35°	291.3
37.5°	251.1
40°	214.9
42.5°	182.8
45°	149.7
47.5°	108.5
50°	70.3
52.5°	33.1
55°	18.1
57.5°	13.1
60°	10.0
62.5°	7.0
65°	5.0
67.5°	2.0
70°	2.0
72.5°	1.0
75°	1.0
77.5°	1.0
80°	1.0
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

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— 0°-180°

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(END OF REPORT)