

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: P640343

Luminaire Tested: ML5609LSFL40D2W1E - 696WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSFL40D2W1E - 696WB - 900LM - 2700K
Description: ML56 RR, 40D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

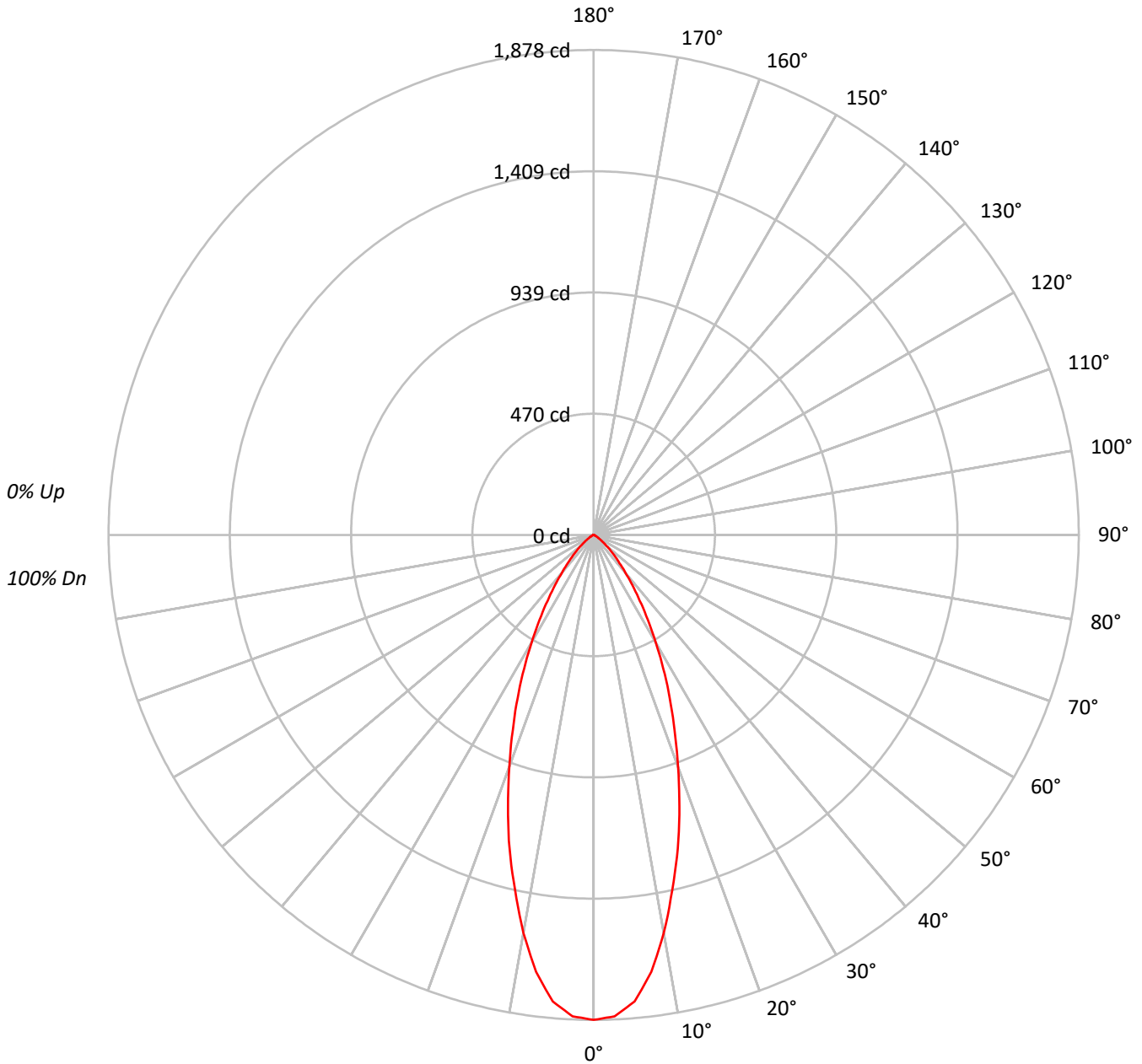
Lumens per Lamp: N/A
Luminaire Lumens: 1158.8 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
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	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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			87
3	103	96	91	87	101	95	90	87	92	89	85	90	87	84	88	85	83	81			81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76			76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			71
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66			66
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63			63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	61	67	63	60	59			59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56			56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102947
5°	99802
10°	87100
15°	71431
20°	55684
25°	42135
30°	30372
35°	20820
40°	13647
45°	8869
50°	5219
55°	2877
60°	1656
65°	908
70°	481
75°	212
80°	316
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8869 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	14.2
10°-20°	347.4	30.0
20°-30°	319.3	27.6
30°-40°	197.8	17.1
40°-50°	90.4	7.8
50°-60°	29.3	2.5
60°-70°	7.6	0.7
70°-80°	1.6	0.1
80°-90°	0.4	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°	831.6	71.8
0°-40°	1029.4	88.8
0°-60°	1149.2	99.2
0°-90°	1158.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1878	
5°	1814	165
15°	1259	347
25°	697	319
35°	311	198
45°	114	90
55°	30	29
65°	7	8
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1877.9
2.5°	1865.8
5°	1813.6
7.5°	1706.2
10°	1564.7
12.5°	1406.1
15°	1258.6
17.5°	1102.0
20°	954.5
22.5°	818.0
25°	696.6
27.5°	583.1
30°	479.8
32.5°	389.4
35°	311.1
37.5°	245.9
40°	190.7
42.5°	148.5
45°	114.4
47.5°	85.3
50°	61.2
52.5°	43.2
55°	30.1
57.5°	21.1
60°	15.1
62.5°	11.0
65°	7.0
67.5°	4.0
70°	3.0
72.5°	2.0
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0
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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