

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: P640581

Luminaire Tested: ML5612LSFL4097FS1E - 592SC - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 592SC - 900LM - 2700K
Description: ML56 RR, 40D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

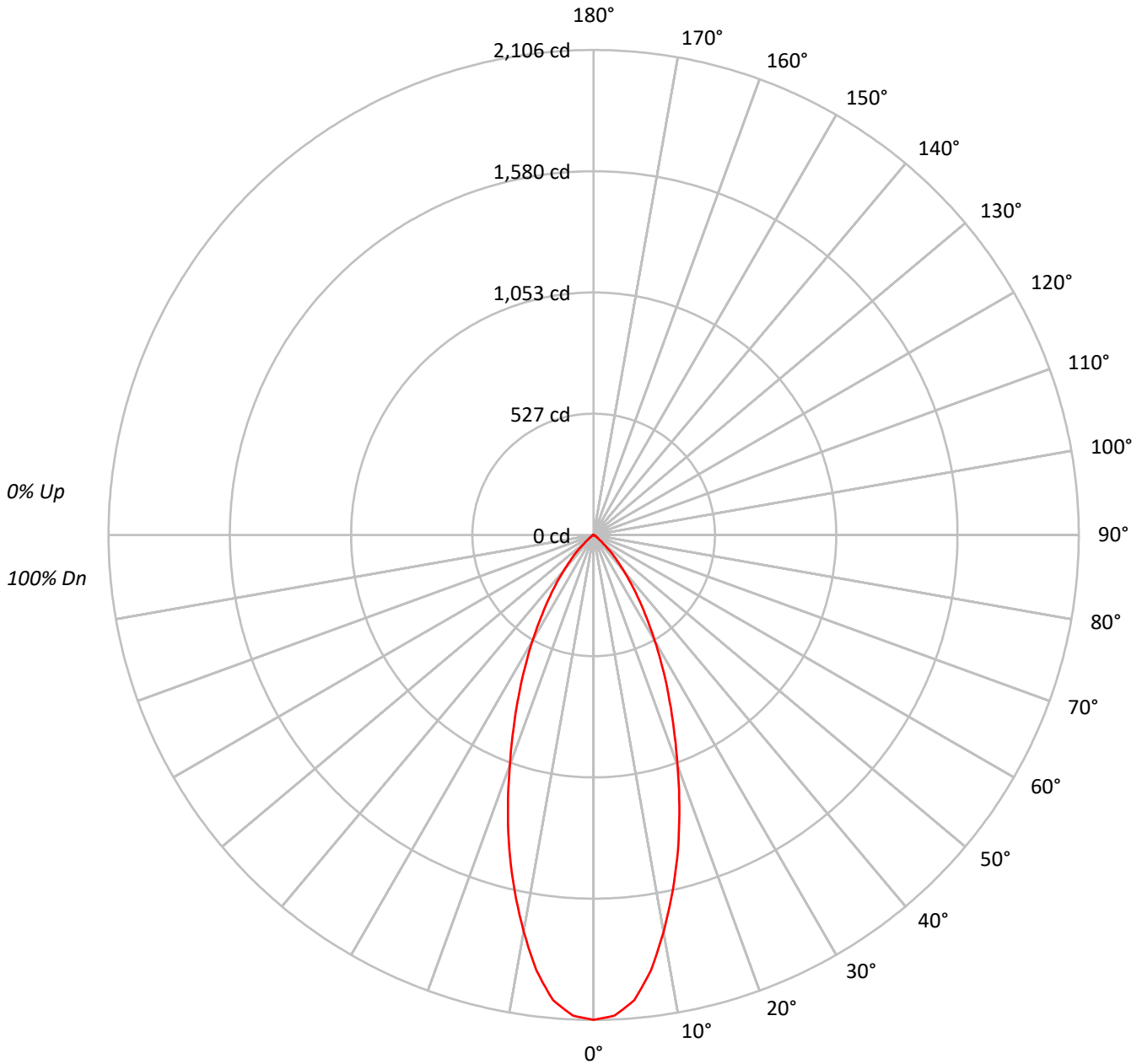
Lumens per Lamp: N/A
Luminaire Lumens: 1244.9 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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				
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94				
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88				
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82				
4	98	91	86	82	97	90	85	81	88	84	80	86	82	80	84	81	79	77				
5	94	86	80	76	92	85	80	76	83	79	75	81	78	75	80	77	74	72				
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	70	68				
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64				
8	82	72	67	63	80	72	67	63	71	66	63	70	65	62	69	65	62	61				
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57				
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	166234
5°	160720
10°	140182
15°	115625
20°	89316
25°	67033
30°	48256
35°	32929
40°	20589
45°	11700
50°	4151
55°	2409
60°	1374
65°	411
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11700 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	14.8
10°-20°	389.9	31.3
20°-30°	353.5	28.4
30°-40°	216.0	17.3
40°-50°	81.6	6.6
50°-60°	16.6	1.3
60°-70°	2.9	0.2
70°-80°	0.0	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°	927.8	74.5
0°-40°	1143.7	91.9
0°-60°	1241.9	99.8
0°-90°	1244.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1244.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2106	
5°	2028	184
15°	1415	390
25°	770	354
35°	342	216
45°	105	82
55°	18	17
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2105.8
2.5°	2089.4
5°	2028.2
7.5°	1907.1
10°	1748.8
12.5°	1584.0
15°	1414.8
17.5°	1236.8
20°	1063.2
22.5°	907.1
25°	769.6
27.5°	644.1
30°	529.4
32.5°	427.9
35°	341.7
37.5°	266.4
40°	199.8
42.5°	150.6
45°	104.8
47.5°	58.9
50°	33.8
52.5°	24.0
55°	17.5
57.5°	12.0
60°	8.7
62.5°	5.5
65°	2.2
67.5°	0.0
70°	0.0
72.5°	0.0
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

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— 0°-180°

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(END OF REPORT)