

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: P640792

Luminaire Tested: ML5612LSFL4097FS1E - 693BB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 693BB - 900LM - 3000K
Description: ML56 RR, 40D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

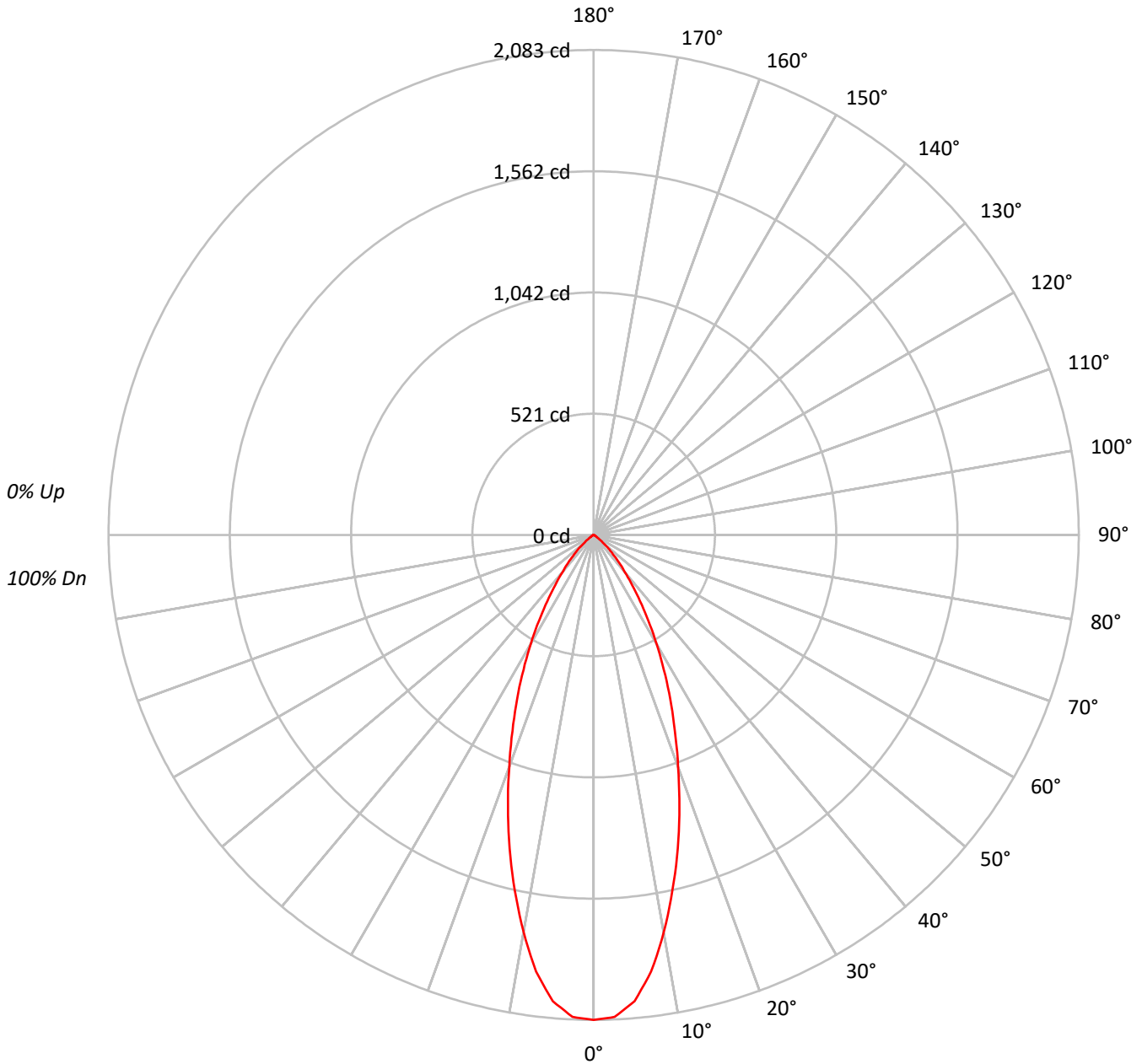
Lumens per Lamp: N/A
Luminaire Lumens: 1263.6 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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	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	95	91	87	93	89	86	90	87	85	88	86	83	82																			
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77																			
5	93	85	80	76	92	84	79	75	83	78	75	81	77	74	79	76	73	72																			
6	89	80	75	70	88	80	74	70	78	73	70	77	73	69	75	72	69	67																			
7	85	76	70	66	84	75	70	66	74	69	66	73	68	65	72	68	65	63																			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60																			
9	77	68	62	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57																			
10	74	65	59	55	73	64	59	55	64	59	55	63	58	55	62	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114207
5°	110626
10°	96474
15°	79121
20°	61815
25°	46981
30°	34107
35°	23209
40°	14942
45°	9140
50°	4597
55°	1826
60°	1107
65°	441
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9140 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	14.5
10°-20°	385.5	30.5
20°-30°	356.1	28.2
30°-40°	220.3	17.4
40°-50°	94.7	7.5
50°-60°	20.5	1.6
60°-70°	3.7	0.3
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°	924.4	73.2
0°-40°	1144.8	90.6
0°-60°	1259.9	99.7
0°-90°	1263.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1263.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2083	
5°	2010	183
15°	1394	386
25°	777	356
35°	347	220
45°	118	95
55°	19	20
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2083.3
2.5°	2072.1
5°	2010.3
7.5°	1891.3
10°	1733.1
12.5°	1563.6
15°	1394.1
17.5°	1223.5
20°	1059.6
22.5°	910.3
25°	776.7
27.5°	652.1
30°	538.8
32.5°	436.6
35°	346.8
37.5°	271.6
40°	208.8
42.5°	161.6
45°	117.9
47.5°	86.4
50°	53.9
52.5°	28.1
55°	19.1
57.5°	13.5
60°	10.1
62.5°	6.7
65°	3.4
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)