

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: P640797

Luminaire Tested: ML5612LSFL4097FS1E - 693SNB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 693SNB - 1200LM - 3000K
Description: ML56 RR, 40D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

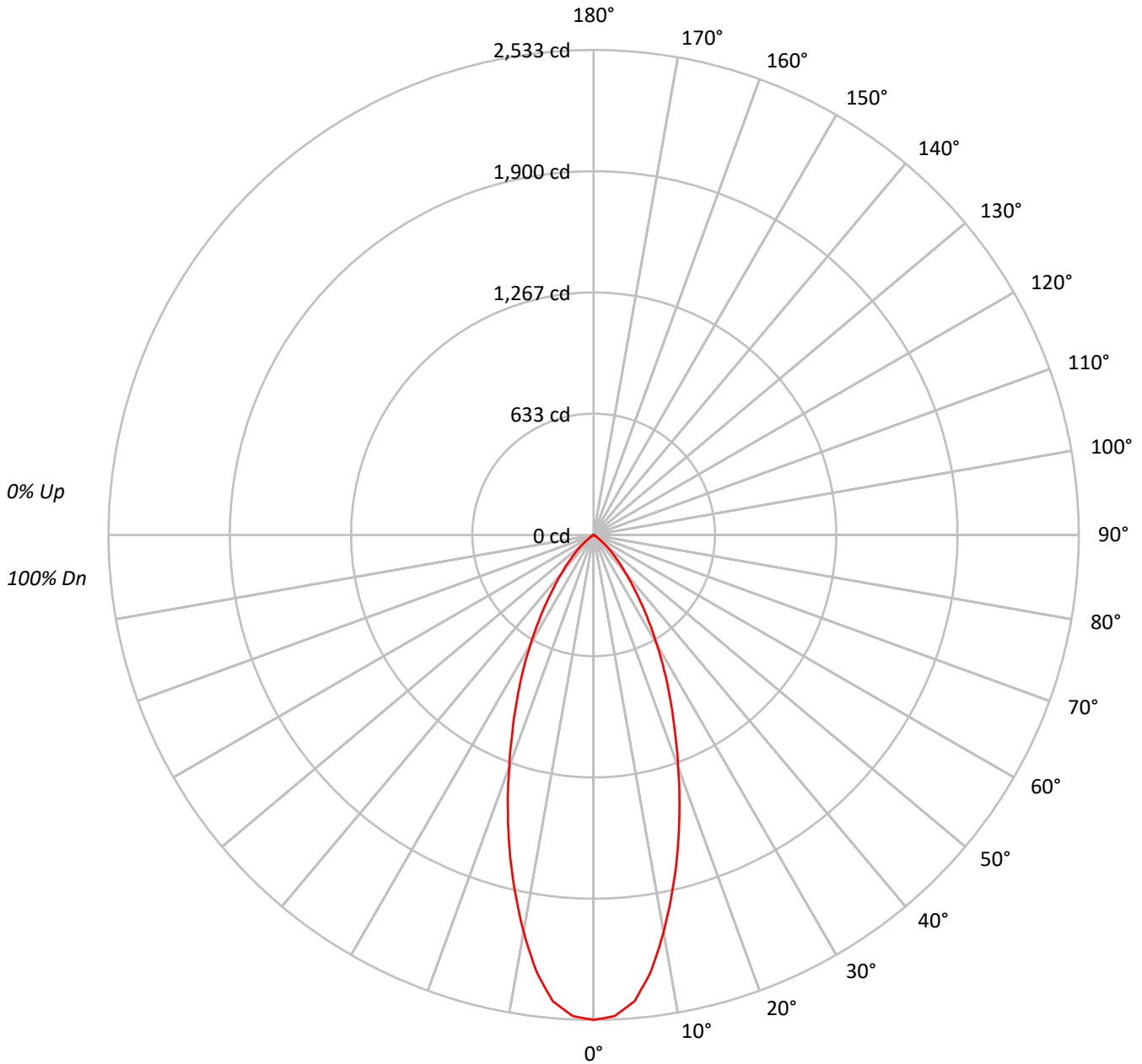
Lumens per Lamp: N/A
Luminaire Lumens: 1546.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.7
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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				100															
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94				94															
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88				88															
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82				82															
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	80	78	76				76															
5	93	85	80	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72				72															
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67				67															
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	63				63															
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60				60															
9	77	68	62	58	76	67	62	58	67	62	58	66	61	58	65	61	58	56				56															
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	53				53															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	138843
5°	134509
10°	117149
15°	96368
20°	75187
25°	57233
30°	41652
35°	28569
40°	18485
45°	11381
50°	6149
55°	2342
60°	1491
65°	532
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11381 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	14.4
10°-20°	469.1	30.3
20°-30°	433.9	28.1
30°-40°	270.5	17.5
40°-50°	118.2	7.6
50°-60°	27.2	1.8
60°-70°	5.0	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°	1125.1	72.8
0°-40°	1395.6	90.3
0°-60°	1541.0	99.7
0°-90°	1546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1546.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2533	
5°	2444	222
15°	1698	469
25°	946	434
35°	427	271
45°	147	118
55°	24	27
65°	4	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2532.7
2.5°	2515.0
5°	2444.3
7.5°	2297.5
10°	2104.5
12.5°	1901.9
15°	1698.0
17.5°	1490.0
20°	1288.8
22.5°	1106.6
25°	946.2
27.5°	796.6
30°	658.0
32.5°	534.3
35°	426.9
37.5°	334.4
40°	258.3
42.5°	199.8
45°	146.8
47.5°	108.8
50°	72.1
52.5°	36.7
55°	24.5
57.5°	19.0
60°	13.6
62.5°	8.2
65°	4.1
67.5°	1.4
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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