

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: P640796

Luminaire Tested: ML5612LSFL4097FS1E - 693SNB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640796
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 - 2700K
Description: ML56 RR, 40D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

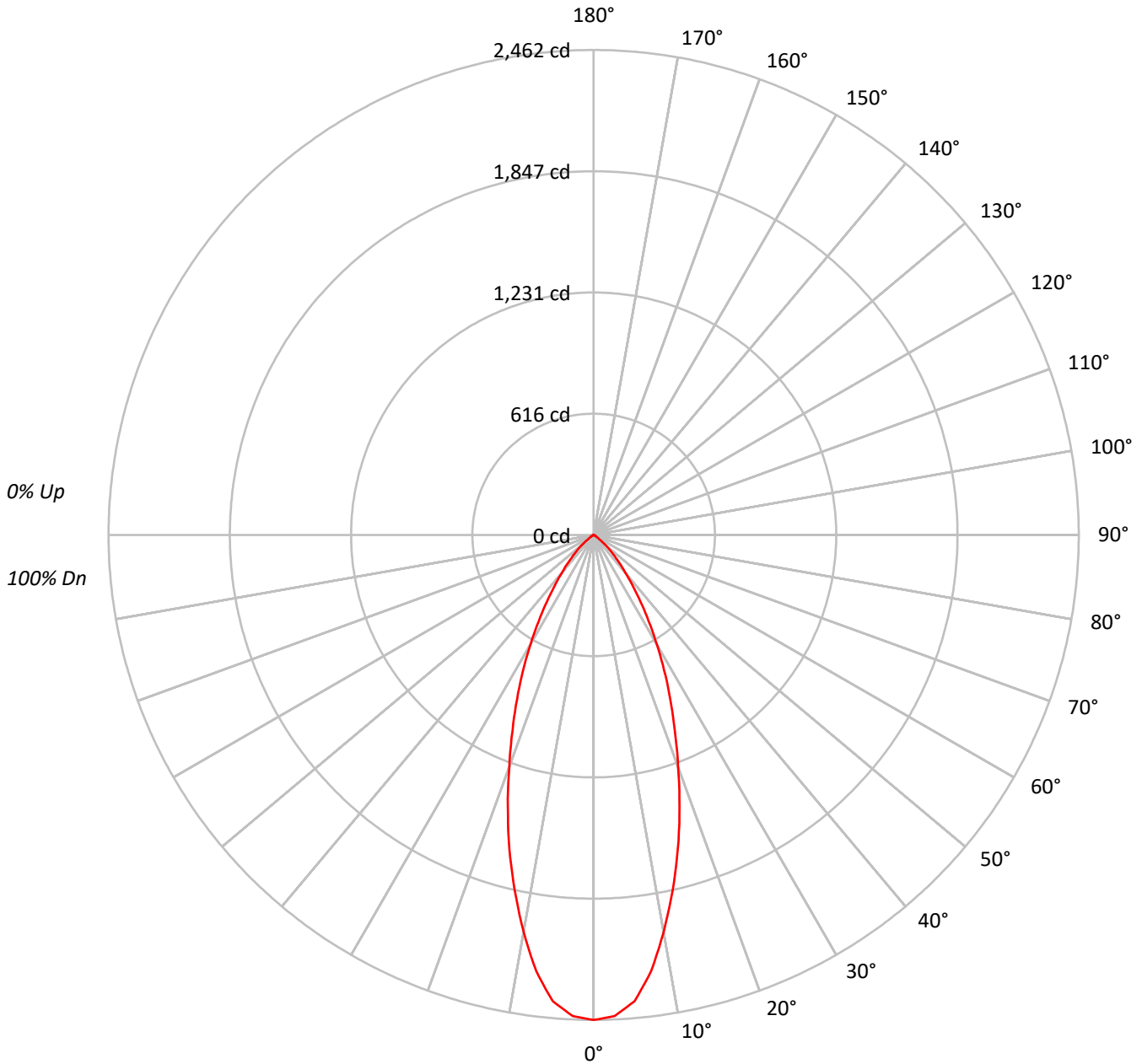
Lumens per Lamp: N/A
Luminaire Lumens: 1503.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.7
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	134984
5°	130772
10°	113892
15°	93690
20°	73098
25°	55642
30°	40494
35°	27773
40°	17969
45°	11063
50°	5978
55°	2275
60°	1447
65°	519
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11063 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	14.4
10°-20°	456.1	30.3
20°-30°	421.8	28.1
30°-40°	263.0	17.5
40°-50°	114.9	7.6
50°-60°	26.4	1.8
60°-70°	4.8	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°	1093.8	72.8
0°-40°	1356.8	90.3
0°-60°	1498.2	99.7
0°-90°	1503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1503.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2462	
5°	2376	216
15°	1651	456
25°	920	422
35°	415	263
45°	143	115
55°	24	26
65°	4	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2462.3
2.5°	2445.2
5°	2376.4
7.5°	2233.7
10°	2046.0
12.5°	1849.1
15°	1650.8
17.5°	1448.6
20°	1253.0
22.5°	1075.9
25°	919.9
27.5°	774.5
30°	639.7
32.5°	519.4
35°	415.0
37.5°	325.1
40°	251.1
42.5°	194.3
45°	142.7
47.5°	105.7
50°	70.1
52.5°	35.7
55°	23.8
57.5°	18.5
60°	13.2
62.5°	7.9
65°	4.0
67.5°	1.3
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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