

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: P640835

Luminaire Tested: ML5612LSFL4097FS1E - 693WB - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 693WB - 600LM - 5000K
Description: ML56 RR, 40D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

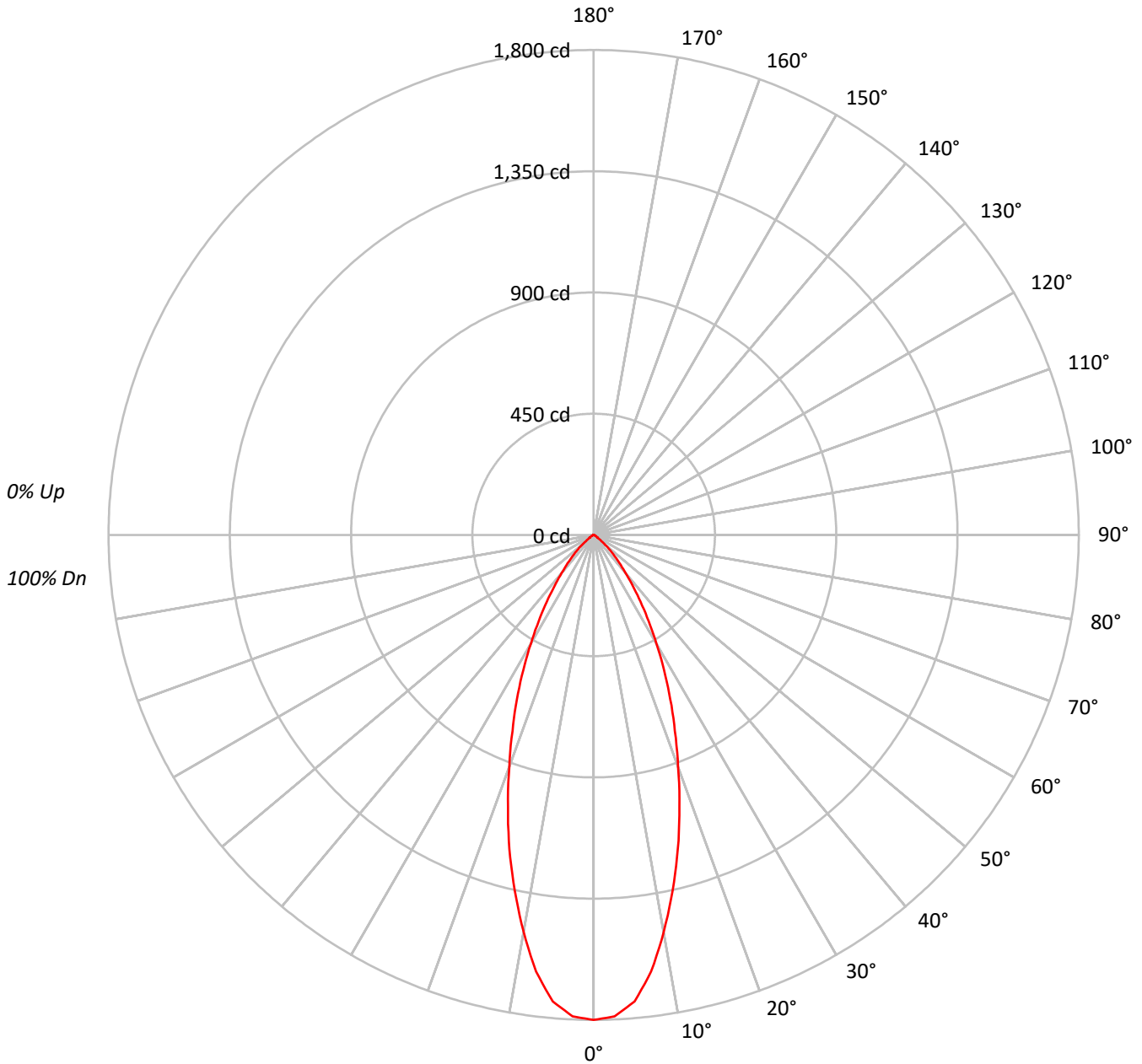
Lumens per Lamp: N/A
Luminaire Lumens: 1106.4 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76			
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63			
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56			
10	74	64	59	55	73	64	58	55	63	58	55	62	58	55	62	57	54	53			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98682
5°	95652
10°	83298
15°	68508
20°	53438
25°	40720
30°	29511
35°	20264
40°	13153
45°	8171
50°	4375
55°	1845
60°	1272
65°	752
70°	465
75°	402
80°	600
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8171 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	14.3
10°-20°	333.4	30.1
20°-30°	308.3	27.9
30°-40°	192.1	17.4
40°-50°	84.5	7.6
50°-60°	20.7	1.9
60°-70°	6.1	0.5
70°-80°	2.4	0.2
80°-90°	1.1	0.1
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°	799.7	72.3
0°-40°	991.7	89.6
0°-60°	1096.8	99.1
0°-90°	1106.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1106.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1800	
5°	1738	158
15°	1207	333
25°	673	308
35°	303	192
45°	105	84
55°	19	21
65°	6	6
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1800.1
2.5°	1788.5
5°	1738.2
7.5°	1634.7
10°	1496.4
12.5°	1352.2
15°	1207.1
17.5°	1058.2
20°	916.0
22.5°	787.4
25°	673.2
27.5°	564.9
30°	466.2
32.5°	379.2
35°	302.8
37.5°	237.9
40°	183.8
42.5°	142.2
45°	105.4
47.5°	78.3
50°	51.3
52.5°	27.1
55°	19.3
57.5°	15.5
60°	11.6
62.5°	8.7
65°	5.8
67.5°	2.9
70°	2.9
72.5°	2.9
75°	1.9
77.5°	1.9
80°	1.9
82.5°	1.0
85°	1.0
87.5°	1.0
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)