

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: P885737

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDSLB-340LM-5000K

Issue Date: 6/19/2024

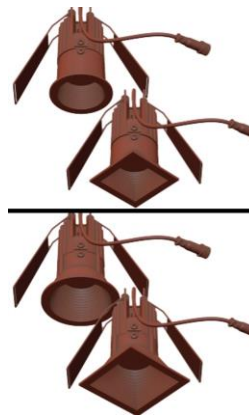
Test Information

Test Method: LM-79-2019
Report Number: P885737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-146)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1SDSLB-340LM-5000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 485.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.68
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

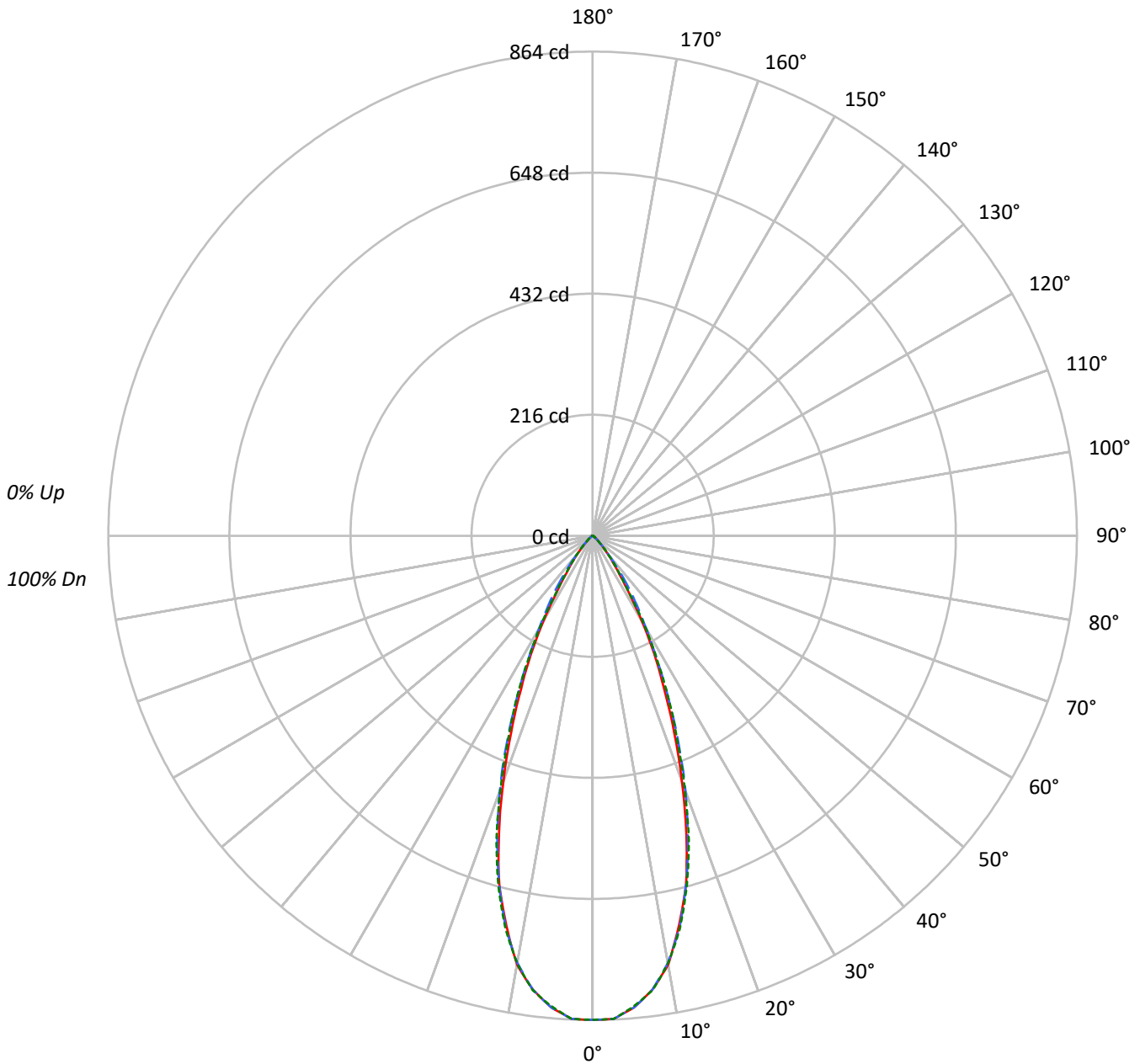
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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	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	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89								
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84								
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79								
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75								
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	73	71								
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68								
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64								
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61								
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1339059	1339059	1339059
5°	1314922	1314922	1311344
10°	1223257	1217748	1219637
15°	1033103	1033103	1040645
20°	766519	799344	791592
25°	516497	546597	548478
30°	312142	339347	333083
35°	154973	203792	161785
40°	85185	92469	87613
45°	35950	46252	38580
50°	22667	19773	22667
55°	15944	9458	15944
60°	10850	3720	10850
65°	8436	4401	8436
70°	5438	0	5438
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 46252 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	16.2
10°-20°	176.5	36.4
20°-30°	145.1	29.9
30°-40°	62.4	12.9
40°-50°	16.5	3.4
50°-60°	4.3	0.9
60°-70°	1.6	0.3
70°-80°	0.2	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°	400.1	82.5
0°-40°	462.5	95.3
0°-60°	483.3	99.6
0°-90°	485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	845	844	845	843	843	79
15°	644	644	644	646	648	175
25°	302	309	320	321	321	140
35°	82	90	108	94	86	56
45°	16	19	21	19	18	16
55°	6	5	4	5	6	5
65°	2	1	1	1	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.9	863.9	863.9	863.9	863.9
2.5°	862.7	863.9	862.7	862.7	862.7
5°	845.1	844.0	845.1	842.8	842.8
7.5°	817.0	815.9	817.0	817.0	818.2
10°	777.2	771.4	773.7	777.2	774.9
12.5°	711.7	716.4	716.4	718.7	718.7
15°	643.8	643.8	643.8	646.1	648.5
17.5°	556.0	558.4	565.4	567.7	571.2
20°	464.7	472.9	484.6	482.3	479.9
22.5°	380.4	385.1	400.3	398.0	394.5
25°	302.0	309.0	319.6	320.7	320.7
27.5°	237.6	244.6	248.2	254.0	248.2
30°	174.4	187.3	189.6	194.3	186.1
32.5°	118.2	129.9	146.3	138.1	122.9
35°	81.9	90.1	107.7	93.6	85.5
37.5°	58.5	62.0	72.6	64.4	60.9
40°	42.1	44.5	45.7	45.7	43.3
42.5°	28.1	29.3	30.4	30.4	29.3
45°	16.4	18.7	21.1	18.7	17.6
47.5°	11.7	11.7	12.9	11.7	11.7
50°	9.4	8.2	8.2	8.2	9.4
52.5°	7.0	5.9	4.7	5.9	7.0
55°	5.9	4.7	3.5	4.7	5.9
57.5°	4.7	3.5	2.3	3.5	4.7
60°	3.5	2.3	1.2	2.3	3.5
62.5°	2.3	2.3	1.2	2.3	2.3
65°	2.3	1.2	1.2	1.2	2.3
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.0	1.2	1.2
72.5°	1.2	0.0	0.0	0.0	1.2
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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