

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: P885723

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDMWB-340LM-2700K

Issue Date: 6/19/2024

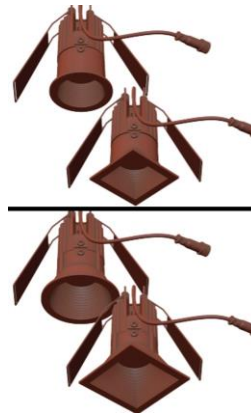
Test Information

Test Method: LM-79-2019
Report Number: P885723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-145)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1SDMWB-340LM-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 376.5 lumens
Efficiency: N/A
Efficacy: 61.7 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

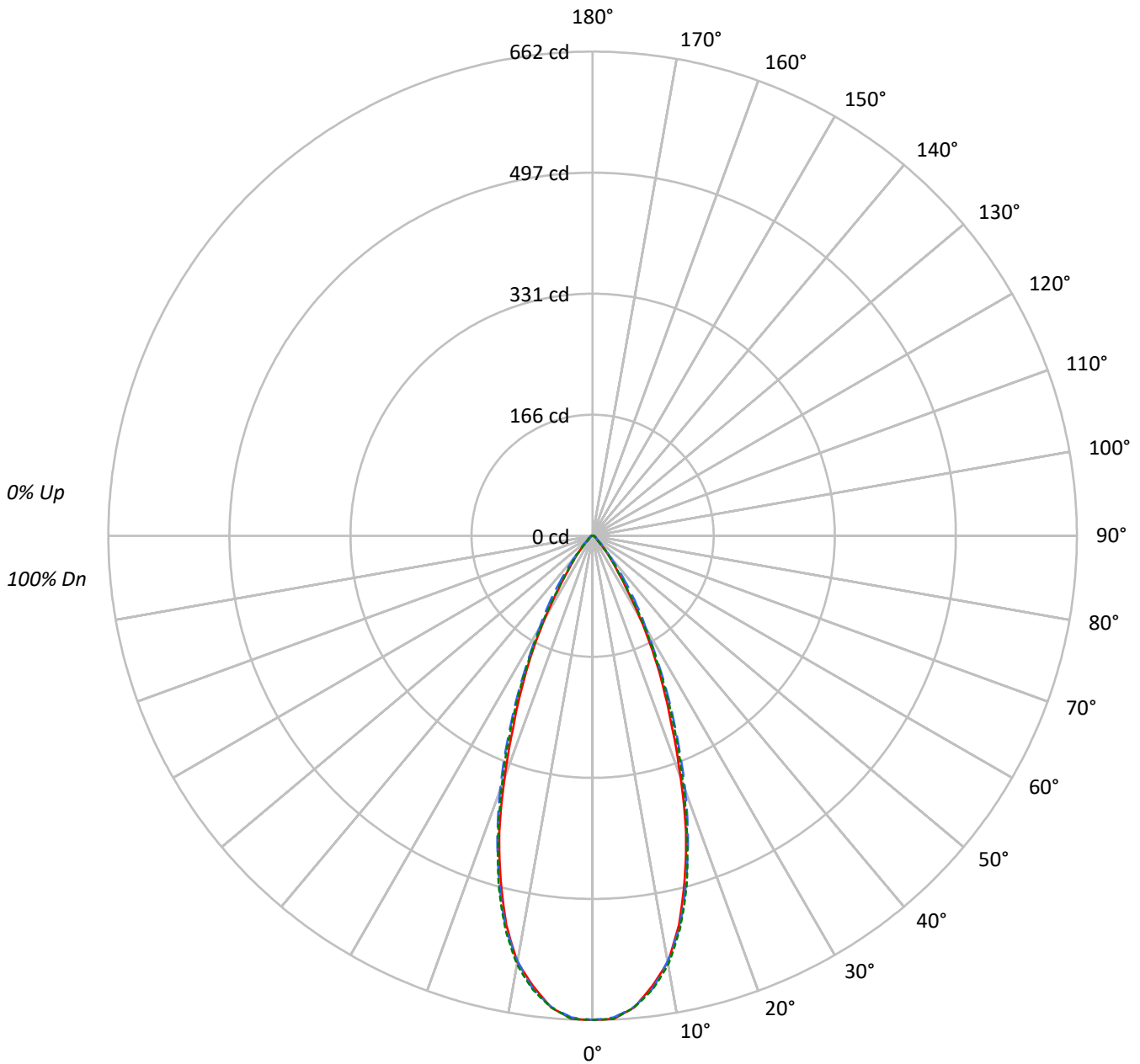
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88								
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83								
4	99	92	87	83	97	91	86	82	89	85	81	87	83	81	85	82	80	78								
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74								
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70								
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66								
8	83	74	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63								
9	80	71	66	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60								
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1025956	1025956	1025956
5°	1007469	1006069	1007469
10°	931293	929876	936959
15°	780363	790473	796250
20°	579302	610477	597116
25°	389596	419012	408238
30°	232138	259522	245024
35°	112398	153459	119210
40°	61916	74664	63737
45°	27620	39457	25647
50°	17362	21703	17362
55°	14593	17025	14593
60°	13950	13950	13950
65°	13204	13204	13204
70°	12236	12236	12236
75°	10780	10780	10780
80°	8034	16067	16067
85°	16006	16006	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 39457 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	15.9
10°-20°	134.6	35.8
20°-30°	109.7	29.1
30°-40°	46.9	12.5
40°-50°	13.2	3.5
50°-60°	5.4	1.4
60°-70°	3.8	1.0
70°-80°	2.2	0.6
80°-90°	0.7	0.2
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°	304.3	80.8
0°-40°	351.2	93.3
0°-60°	369.8	98.2
0°-90°	376.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	376.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	648	647	647	647	648	60
15°	486	488	493	494	496	133
25°	228	233	245	240	239	105
35°	59	67	81	71	63	41
45°	13	15	18	15	12	12
55°	5	6	6	6	5	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	661.9	661.9	661.9	661.9	661.9
2.5°	661.0	660.1	659.2	660.1	661.0
5°	647.5	646.6	646.6	646.6	647.5
7.5°	621.4	624.1	625.0	625.9	625.9
10°	591.7	589.9	590.8	592.6	595.3
12.5°	544.8	545.7	548.4	550.2	551.1
15°	486.3	488.1	492.6	494.4	496.2
17.5°	424.2	426.0	433.2	432.3	429.6
20°	351.2	357.5	370.1	370.1	362.0
22.5°	283.7	292.7	304.4	300.8	298.1
25°	227.8	233.2	245.0	239.6	238.7
27.5°	177.4	184.6	190.0	190.0	184.6
30°	129.7	141.4	145.0	145.0	136.9
32.5°	87.4	98.2	111.7	103.6	91.9
35°	59.4	66.6	81.1	71.1	63.0
37.5°	43.2	46.8	55.8	47.7	45.0
40°	30.6	33.3	36.9	34.2	31.5
42.5°	20.7	22.5	25.2	23.4	20.7
45°	12.6	15.3	18.0	15.3	11.7
47.5°	9.0	9.9	13.5	9.9	9.0
50°	7.2	8.1	9.0	8.1	7.2
52.5°	6.3	6.3	7.2	6.3	6.3
55°	5.4	6.3	6.3	6.3	5.4
57.5°	4.5	5.4	5.4	5.4	4.5
60°	4.5	4.5	4.5	4.5	4.5
62.5°	4.5	4.5	4.5	4.5	4.5
65°	3.6	3.6	3.6	3.6	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.7	2.7	2.7	2.7	2.7
75°	1.8	1.8	1.8	1.8	1.8
77.5°	1.8	1.8	1.8	1.8	1.8
80°	0.9	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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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