

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



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: P885733

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDSLB-340LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885733
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-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

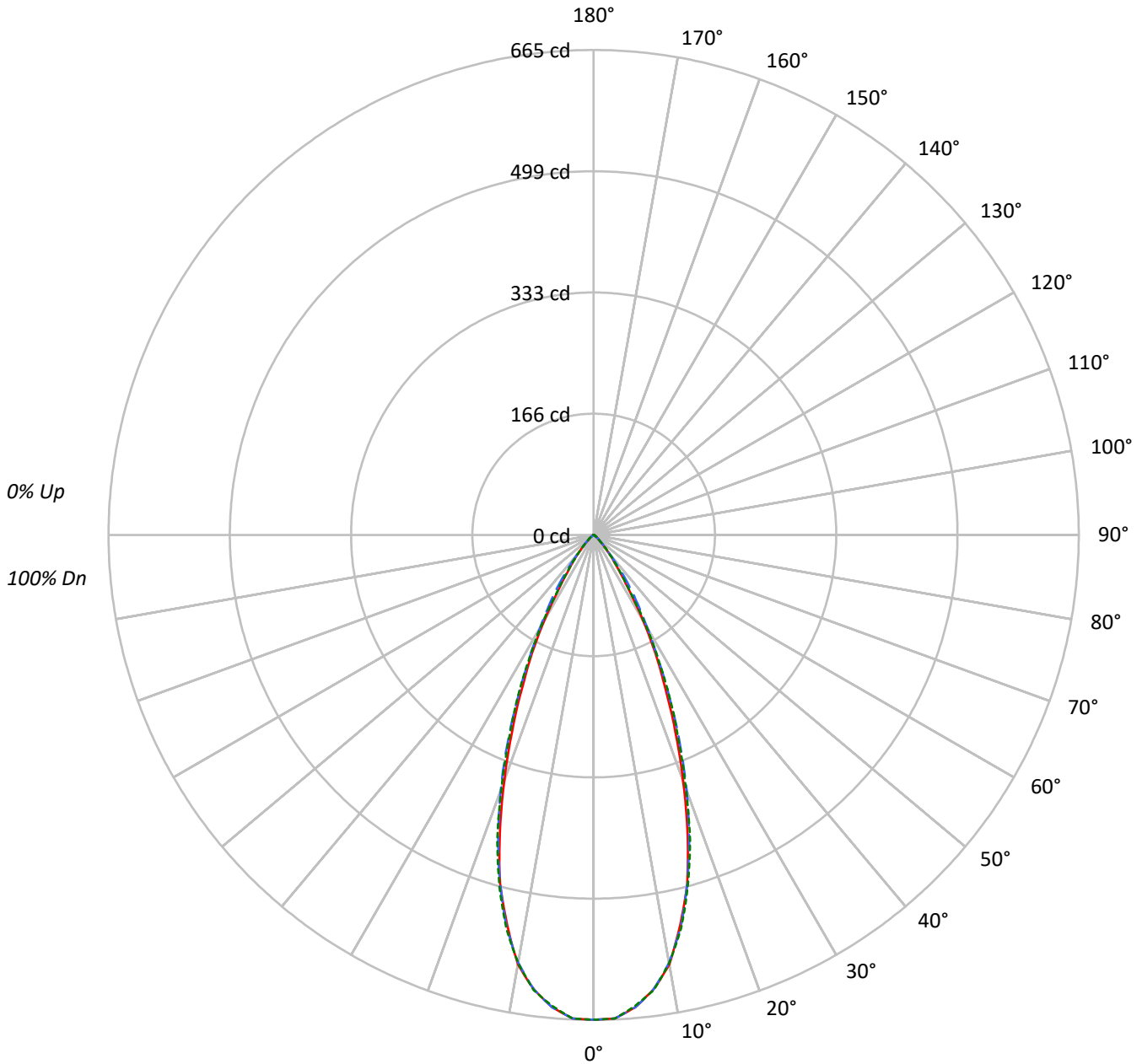
Lumens per Lamp: N/A
Luminaire Lumens: 373.2 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.68
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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°	1030296	1030296	1030296
5°	1011826	1011826	1009025
10°	941366	937117	938533
15°	794966	794966	800743
20°	589859	615096	609158
25°	397463	420551	422091
30°	240192	261132	256300
35°	119399	156865	124508
40°	65558	71021	67379
45°	27620	35511	29593
50°	17362	15192	17362
55°	12161	7296	12161
60°	8370	2790	8370
65°	6602	3301	6602
70°	4079	0	4079
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 35511 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	16.2
10°-20°	135.8	36.4
20°-30°	111.7	29.9
30°-40°	48.0	12.9
40°-50°	12.7	3.4
50°-60°	3.3	0.9
60°-70°	1.2	0.3
70°-80°	0.1	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°	307.8	82.5
0°-40°	355.9	95.4
0°-60°	371.9	99.6
0°-90°	373.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	373.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	650	649	650	648	648	60
15°	495	495	495	497	499	135
25°	232	238	246	247	247	107
35°	63	69	83	72	66	43
45°	13	14	16	14	14	12
55°	4	4	3	4	4	4
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°	664.7	664.7	664.7	664.7	664.7
2.5°	663.8	664.7	663.8	663.8	663.8
5°	650.3	649.4	650.3	648.5	648.5
7.5°	628.7	627.8	628.7	628.7	629.6
10°	598.1	593.6	595.4	598.1	596.3
12.5°	547.6	551.2	551.2	553.0	553.0
15°	495.4	495.4	495.4	497.2	499.0
17.5°	427.8	429.6	435.1	436.9	439.6
20°	357.6	363.9	372.9	371.1	369.3
22.5°	292.7	296.3	308.0	306.2	303.5
25°	232.4	237.8	245.9	246.8	246.8
27.5°	182.8	188.3	191.0	195.5	191.0
30°	134.2	144.1	145.9	149.5	143.2
32.5°	91.0	100.0	112.6	106.3	94.6
35°	63.1	69.4	82.9	72.1	65.8
37.5°	45.0	47.7	55.8	49.5	46.8
40°	32.4	34.2	35.1	35.1	33.3
42.5°	21.6	22.5	23.4	23.4	22.5
45°	12.6	14.4	16.2	14.4	13.5
47.5°	9.0	9.0	9.9	9.0	9.0
50°	7.2	6.3	6.3	6.3	7.2
52.5°	5.4	4.5	3.6	4.5	5.4
55°	4.5	3.6	2.7	3.6	4.5
57.5°	3.6	2.7	1.8	2.7	3.6
60°	2.7	1.8	0.9	1.8	2.7
62.5°	1.8	1.8	0.9	1.8	1.8
65°	1.8	0.9	0.9	0.9	1.8
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.0	0.9	0.9
72.5°	0.9	0.0	0.0	0.0	0.9
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

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Scaled Data Report





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

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