

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: P885713

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDMBB-340LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1SDMBB-340LM-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 355.8 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

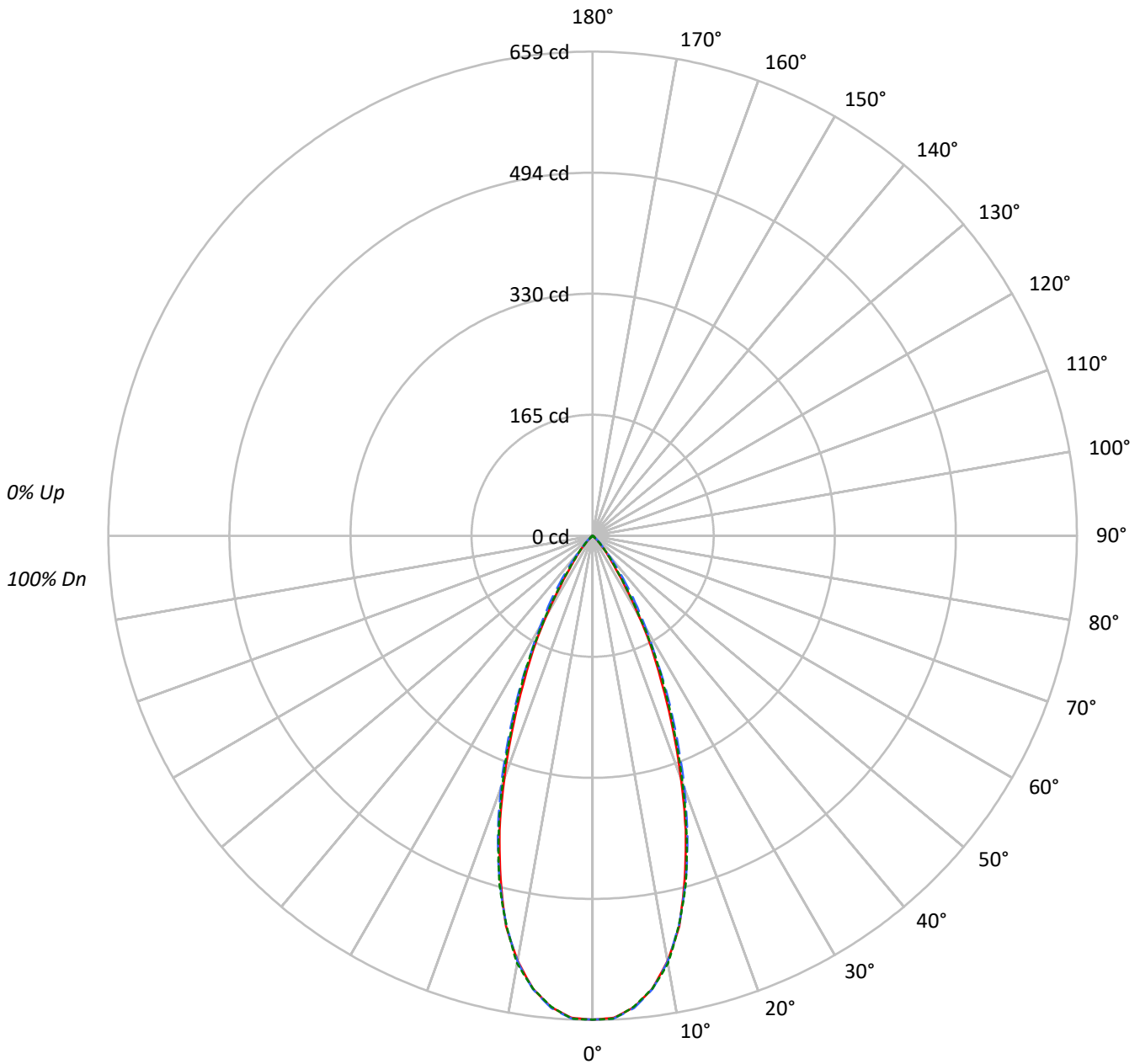
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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	110	108	106	106	104	103	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
8	85	77	71	68	84	76	71	68	75	70	67	74	70	67	73	69	67	66
9	81	73	68	64	80	73	68	64	72	67	64	71	67	64	70	66	64	63
10	78	70	65	61	77	69	65	61	69	64	61	68	64	61	67	64	61	60

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1020841	1020841	1020841
5°	1002335	1003735	1000934
10°	924525	925942	930191
15°	776351	783572	786461
20°	579632	601900	590024
25°	383610	413026	402252
30°	225694	254868	233748
35°	102369	144944	110884
40°	50990	61916	54632
45°	17756	29593	17756
50°	6511	10851	6511
55°	2432	2432	2432
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 29593 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	16.8
10°-20°	133.5	37.5
20°-30°	108.1	30.4
30°-40°	43.9	12.3
40°-50°	9.4	2.7
50°-60°	1.0	0.3
60°-70°	0.0	0.0
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°	301.3	84.7
0°-40°	345.3	97.1
0°-60°	355.8	100.0
0°-90°	355.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	355.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	644	644	645	643	643	60
15°	484	487	488	486	490	132
25°	224	232	242	235	235	104
35°	54	63	77	66	59	38
45°	8	10	14	11	8	8
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
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°	658.6	658.6	658.6	658.6	658.6
2.5°	656.8	656.8	657.7	656.8	657.7
5°	644.2	644.2	645.1	643.3	643.3
7.5°	621.7	621.7	622.6	622.6	621.7
10°	587.4	589.2	588.3	590.1	591.0
12.5°	544.2	543.3	542.4	544.2	542.4
15°	483.8	487.4	488.3	486.5	490.1
17.5°	420.8	423.5	428.9	428.9	425.3
20°	351.4	360.4	364.9	361.3	357.7
22.5°	284.7	291.9	300.0	297.3	291.9
25°	224.3	231.6	241.5	235.2	235.2
27.5°	174.8	181.1	184.7	186.5	182.9
30°	126.1	135.1	142.4	139.7	130.6
32.5°	83.8	93.7	107.2	99.1	88.3
35°	54.1	63.1	76.6	65.8	58.6
37.5°	36.9	41.4	51.4	43.2	39.6
40°	25.2	28.8	30.6	28.8	27.0
42.5°	15.3	18.0	19.8	18.9	16.2
45°	8.1	9.9	13.5	10.8	8.1
47.5°	3.6	5.4	8.1	5.4	3.6
50°	2.7	2.7	4.5	2.7	2.7
52.5°	1.8	1.8	1.8	1.8	1.8
55°	0.9	0.9	0.9	0.9	0.9
57.5°	0.0	0.0	0.9	0.9	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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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