

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: P885655

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMBB-340LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-141)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMBB-340LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

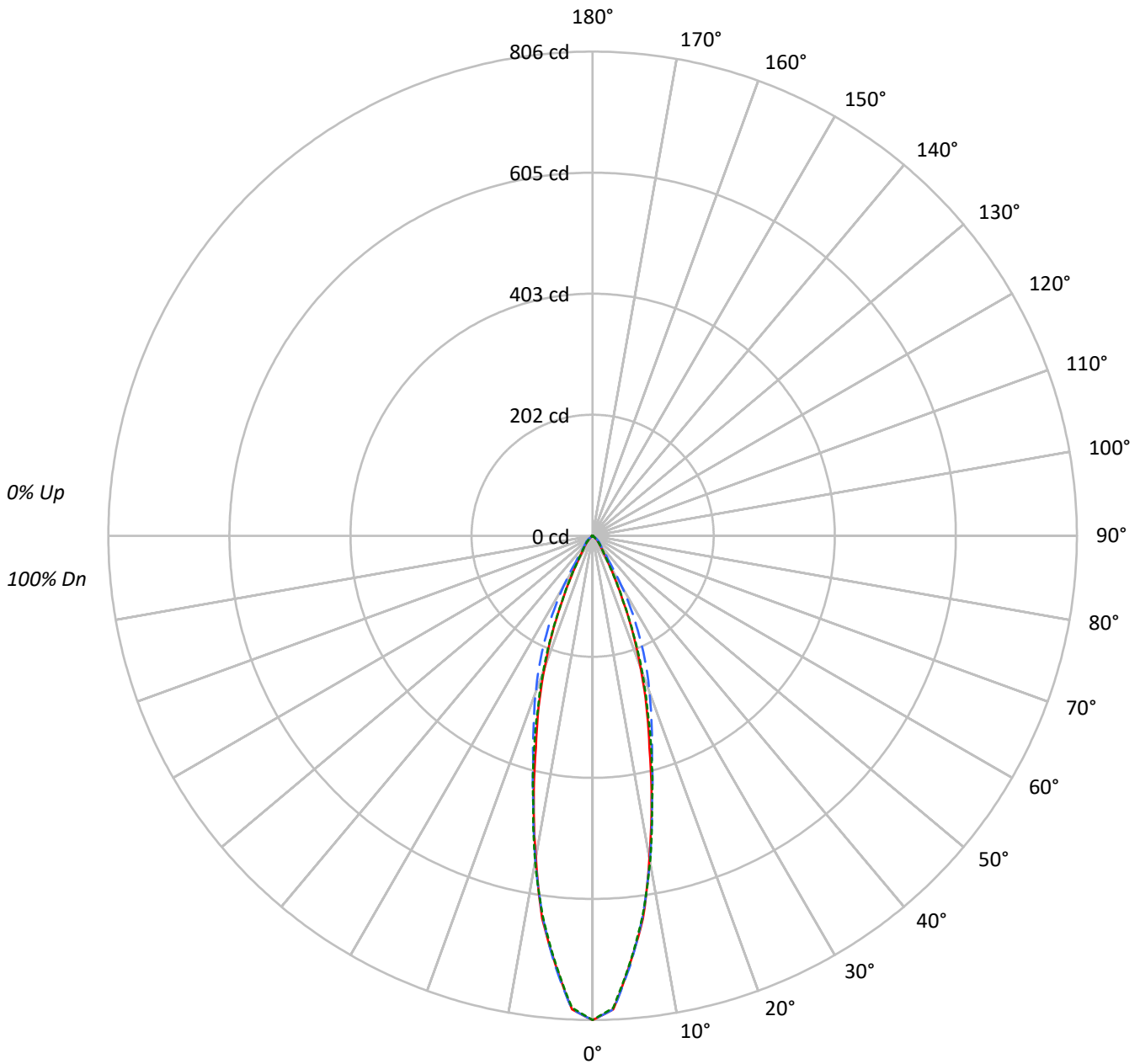
Lumens per Lamp: N/A
Luminaire Lumens: 269.4 lumens
Efficiency: N/A
Efficacy: 44.2 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95								
2	110	106	102	100	108	104	101	98	101	99	96	98	96	94	95	94	92	91								
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87								
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83								
5	98	91	86	83	96	90	86	82	88	84	81	87	83	81	85	82	80	79								
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75								
7	91	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	73	72								
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69								
9	84	77	72	68	83	76	72	68	75	71	68	74	71	68	74	70	68	67								
10	82	74	69	66	81	73	69	66	73	68	66	72	68	65	71	68	65	64								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1249468	1249468	1249468
5°	1112495	1117007	1109383
10°	857161	863457	866605
15°	584751	613314	607056
20°	383837	455755	396868
25°	203178	313318	206599
30°	93965	170210	92175
35°	50522	61876	50522
40°	33993	42087	36017
45°	21701	32662	21701
50°	4823	23873	4823
55°	2702	2702	2702
60°	3100	0	3100
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: 32662 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	23.5
10°-20°	105.5	39.2
20°-30°	68.3	25.3
30°-40°	22.2	8.2
40°-50°	8.7	3.2
50°-60°	1.4	0.5
60°-70°	0.1	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°	237.0	88.0
0°-40°	259.2	96.2
0°-60°	269.3	100.0
0°-90°	269.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	269.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	715	718	718	713	713	63
15°	364	374	382	380	378	102
25°	119	143	183	144	121	57
35°	27	34	33	33	27	18
45°	10	11	15	12	10	7
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°	806.1	806.1	806.1	806.1	806.1
2.5°	789.2	787.2	789.2	786.3	786.3
5°	715.0	717.9	717.9	713.0	713.0
7.5°	642.7	640.7	638.7	634.7	637.7
10°	544.6	542.7	548.6	551.6	550.6
12.5°	452.5	452.5	456.5	465.4	457.5
15°	364.4	374.3	382.2	380.3	378.3
17.5°	298.1	308.0	325.8	315.9	304.0
20°	232.7	250.5	276.3	254.5	240.6
22.5°	175.3	196.1	230.7	199.0	178.2
25°	118.8	142.6	183.2	143.6	120.8
27.5°	78.2	94.1	139.6	97.0	80.2
30°	52.5	65.4	95.1	64.4	51.5
32.5°	34.7	47.5	55.5	46.5	35.6
35°	26.7	33.7	32.7	32.7	26.7
37.5°	20.8	24.8	24.8	23.8	21.8
40°	16.8	17.8	20.8	17.8	17.8
42.5°	12.9	14.9	17.8	14.9	13.9
45°	9.9	10.9	14.9	11.9	9.9
47.5°	3.0	6.9	12.9	6.9	3.0
50°	2.0	2.0	9.9	2.0	2.0
52.5°	2.0	1.0	5.0	1.0	2.0
55°	1.0	1.0	1.0	1.0	1.0
57.5°	1.0	1.0	1.0	1.0	1.0
60°	1.0	0.0	0.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
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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