

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: P886375

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

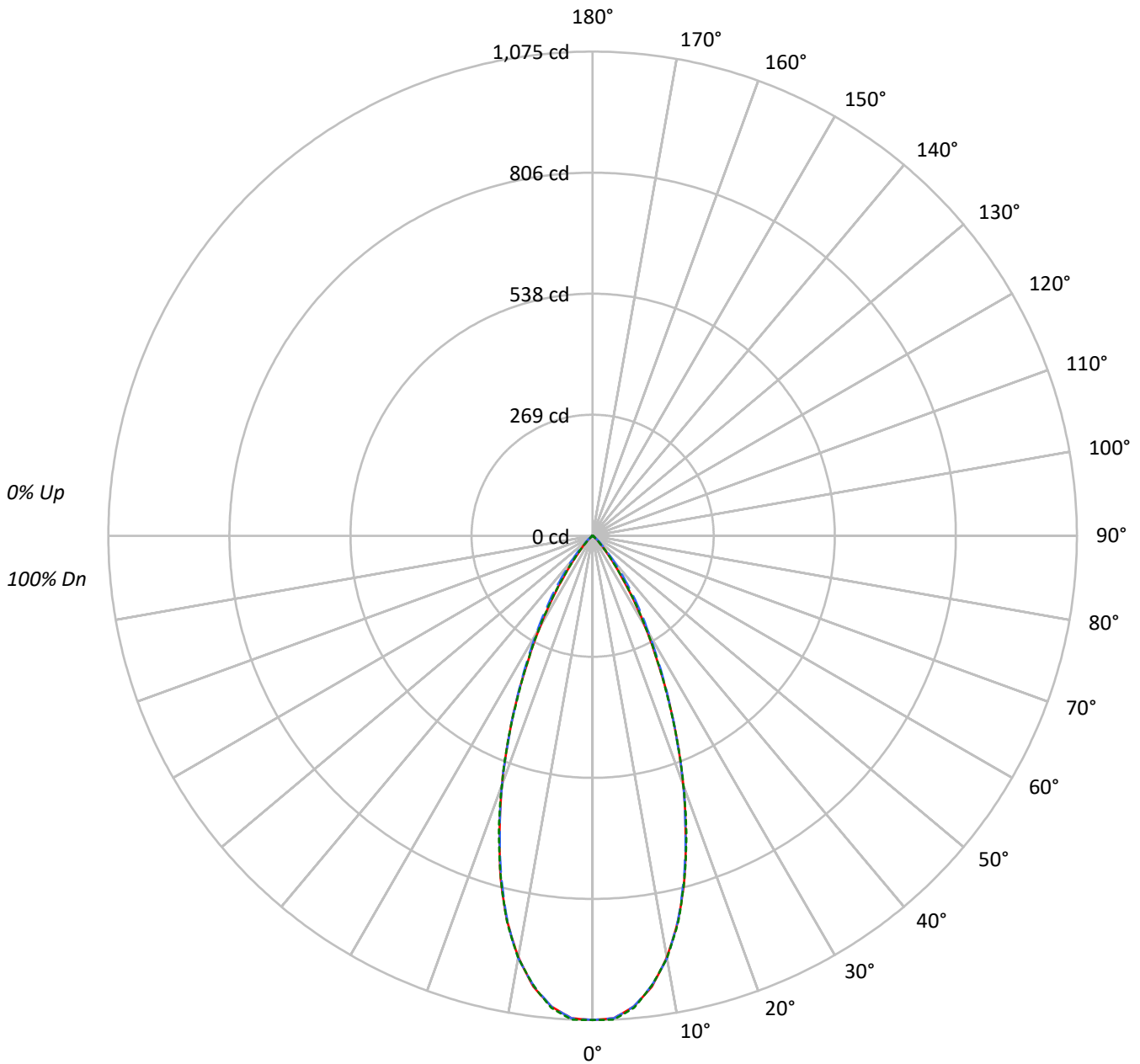
Lumens per Lamp: N/A
Luminaire Lumens: 602.2 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
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									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	109	107	112	109	107	106	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	91	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	85	82	86	83	81	80																			
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	74	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	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	416639	416639	416639
5°	408117	408117	409284
10°	373843	374630	374236
15°	316161	314557	315760
20°	242926	242926	242926
25°	168928	168928	167218
30°	104702	110967	105150
35°	53455	66700	55347
40°	24281	35915	25292
45°	9864	15344	9864
50°	3617	7234	3617
55°	2027	2027	2027
60°	775	775	775
65°	917	917	917
70°	1133	0	1133
75°	1497	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15344 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	16.1
10°-20°	215.8	35.8
20°-30°	181.7	30.2
30°-40°	83.5	13.9
40°-50°	20.0	3.3
50°-60°	3.0	0.5
60°-70°	1.0	0.2
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°	494.5	82.1
0°-40°	578.0	96.0
0°-60°	601.0	99.8
0°-90°	602.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	602.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1049	1050	1049	1050	1052	97
15°	788	790	784	784	787	216
25°	395	396	395	396	391	180
35°	113	129	141	130	117	76
45°	18	22	28	23	18	16
55°	3	3	3	3	3	3
65°	1	1	1	1	1	1
75°	1	0	0	0	0	1
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°	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1072.2	1071.2	1072.2	1073.2	1075.2
5°	1049.2	1050.2	1049.2	1050.2	1052.2
7.5°	1009.1	1010.1	1007.1	1008.1	1007.1
10°	950.1	952.1	952.1	952.1	951.1
12.5°	876.1	876.1	875.1	872.1	878.1
15°	788.1	790.1	784.1	784.1	787.1
17.5°	686.1	687.1	685.1	691.1	692.1
20°	589.1	590.1	589.1	588.1	589.1
22.5°	488.1	492.1	487.1	494.1	489.1
25°	395.1	396.1	395.1	396.1	391.1
27.5°	306.0	308.0	317.0	312.0	308.0
30°	234.0	239.0	248.0	239.0	235.0
32.5°	170.0	182.0	192.0	185.0	173.0
35°	113.0	129.0	141.0	130.0	117.0
37.5°	75.0	83.0	101.0	85.0	76.0
40°	48.0	54.0	71.0	55.0	50.0
42.5°	32.0	36.0	46.0	37.0	33.0
45°	18.0	22.0	28.0	23.0	18.0
47.5°	9.0	12.0	19.0	12.0	9.0
50°	6.0	6.0	12.0	6.0	6.0
52.5°	4.0	4.0	6.0	4.0	4.0
55°	3.0	3.0	3.0	3.0	3.0
57.5°	2.0	2.0	2.0	2.0	2.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.0	1.0	1.0
72.5°	1.0	0.0	0.0	0.0	1.0
75°	1.0	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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