

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: P886357

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDMBB-550LM-3500K

Issue Date: 6/20/2024

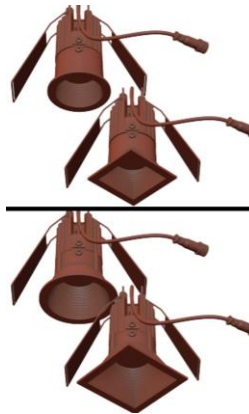
Test Information

Test Method: LM-79-2019
Report Number: P886357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-100)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2SDMBB-550LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

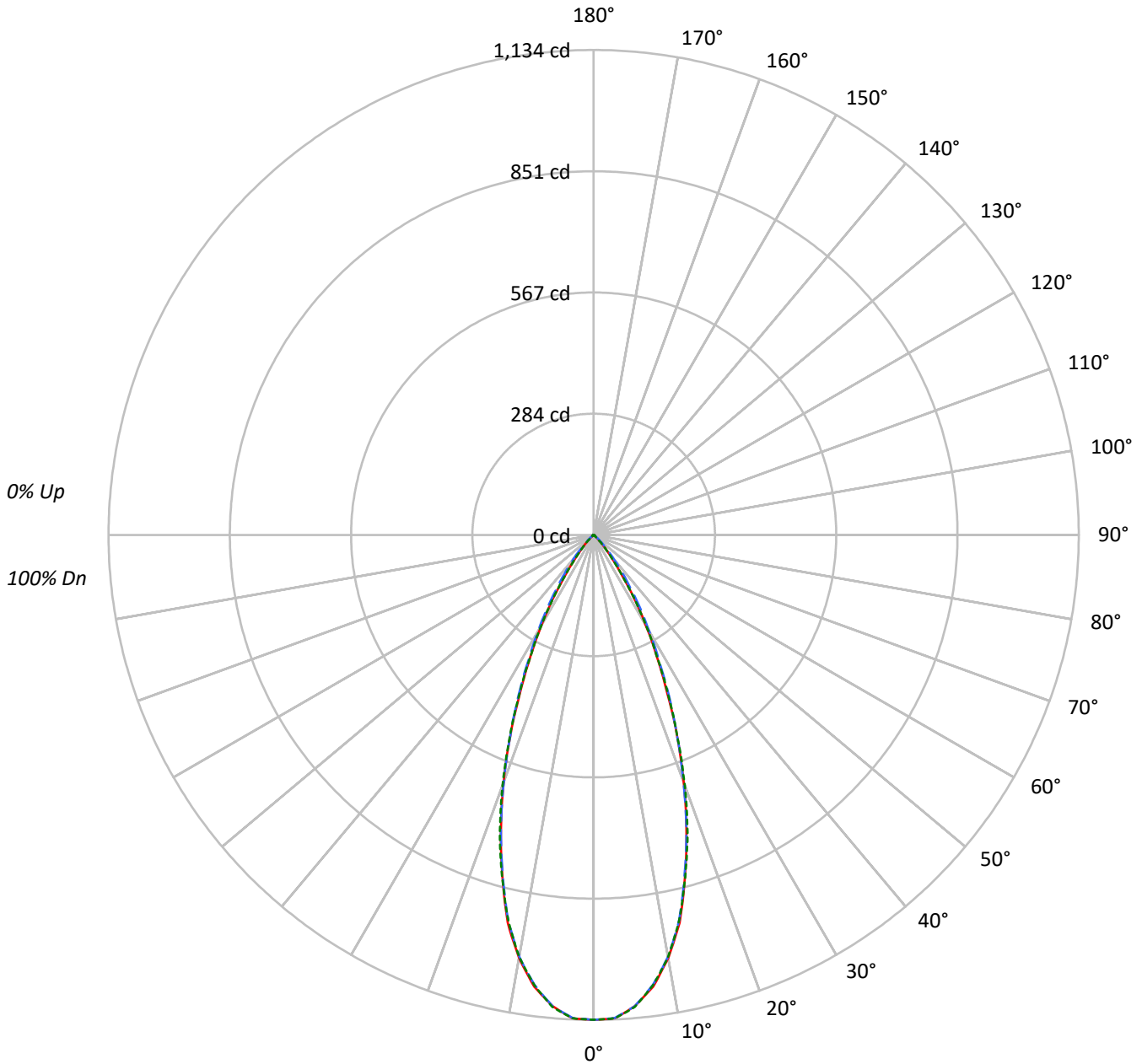
Lumens per Lamp: N/A
Luminaire Lumens: 625.4 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	439308	439308	439308
5°	430173	430173	430989
10°	395208	393949	394343
15°	330924	329640	331767
20°	253771	252905	256452
25°	173589	178164	175897
30°	108998	116157	109982
35°	55110	69254	55583
40°	24888	36775	24331
45°	8768	15783	8220
50°	1929	6450	2592
55°	743	1419	743
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: 15783 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	16.3
10°-20°	226.8	36.3
20°-30°	189.9	30.4
30°-40°	85.7	13.7
40°-50°	19.1	3.1
50°-60°	1.6	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°	519.0	83.0
0°-40°	604.7	96.7
0°-60°	625.4	100.0
0°-90°	625.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	625.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1106	1106	1106	1105	1108	102
15°	825	824	822	828	827	227
25°	406	415	417	414	411	188
35°	116	132	146	130	118	78
45°	16	21	29	20	15	15
55°	1	1	2	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°	1133.7	1133.7	1133.7	1133.7	1133.7
2.5°	1131.5	1131.5	1130.5	1130.5	1131.5
5°	1105.9	1105.9	1105.9	1104.8	1108.0
7.5°	1065.3	1064.2	1061.0	1061.0	1062.1
10°	1004.4	1002.2	1001.2	1004.4	1002.2
12.5°	928.5	925.3	923.2	924.2	923.2
15°	824.9	823.8	821.7	828.1	827.0
17.5°	721.2	718.0	721.2	720.2	729.8
20°	615.4	618.7	613.3	617.6	621.9
22.5°	510.7	515.0	510.7	511.8	512.9
25°	406.0	414.6	416.7	413.5	411.4
27.5°	318.4	325.9	330.2	325.9	319.5
30°	243.6	246.8	259.6	250.0	245.8
32.5°	177.4	189.1	198.7	189.1	176.3
35°	116.5	132.5	146.4	130.4	117.5
37.5°	74.8	84.4	104.7	85.5	73.7
40°	49.2	53.4	72.7	54.5	48.1
42.5°	31.0	36.3	47.0	35.3	29.9
45°	16.0	21.4	28.8	20.3	15.0
47.5°	5.3	9.6	18.2	10.7	6.4
50°	3.2	4.3	10.7	4.3	4.3
52.5°	2.1	2.1	4.3	2.1	2.1
55°	1.1	1.1	2.1	1.1	1.1
57.5°	0.0	0.0	1.1	1.1	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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