

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: P886415

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMBB-550LM-2700K

Issue Date: 6/20/2024

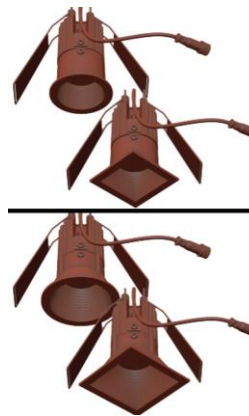
Test Information

Test Method: LM-79-2019
Report Number: P886415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-106)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMBB-550LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

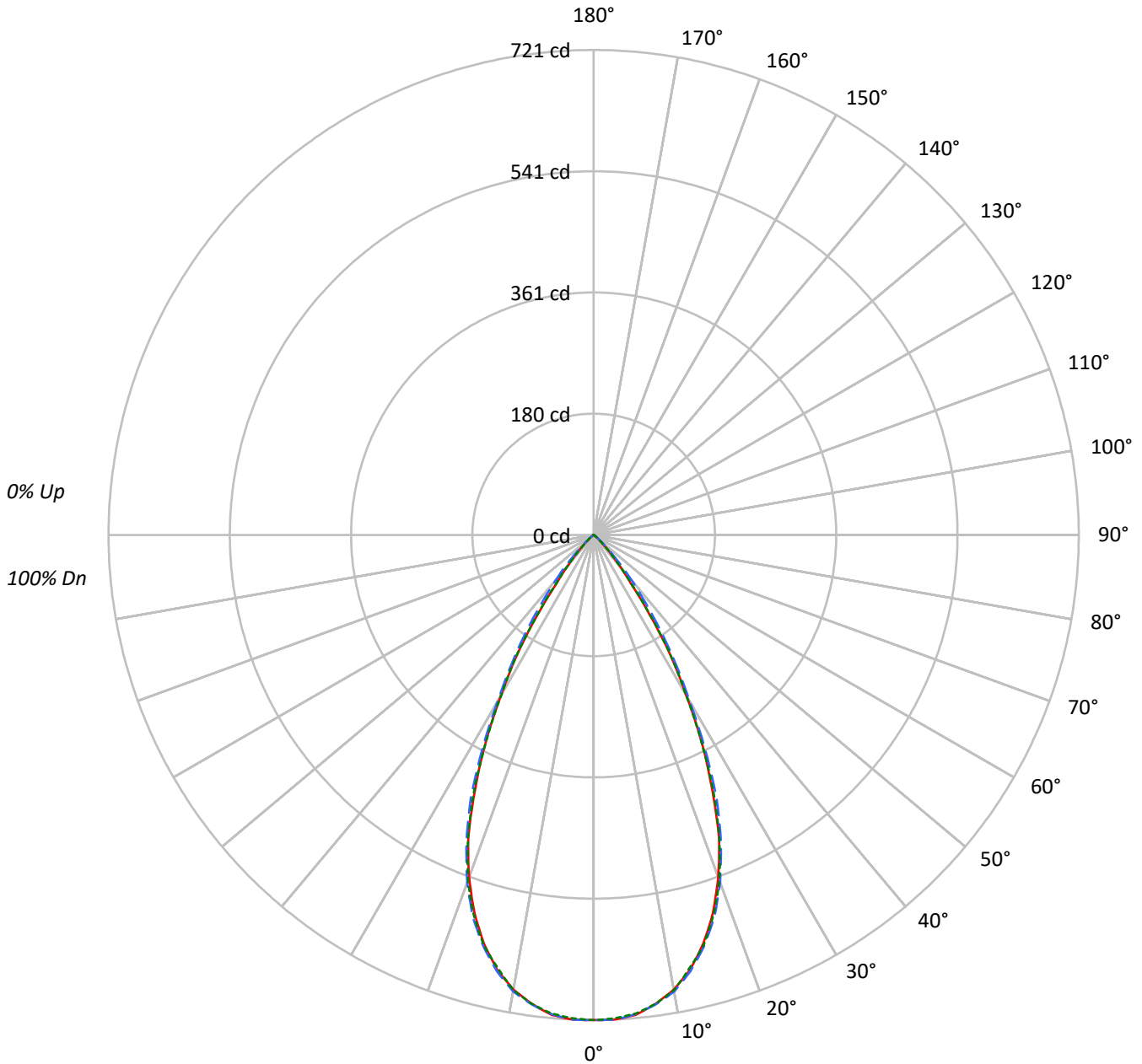
Lumens per Lamp: N/A
Luminaire Lumens: 560.4 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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					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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94				
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88				
3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83				
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77				
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73				
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68				
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64				
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61				
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	61	59	57				
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	279503	279503	279503
5°	278626	278237	277848
10°	270043	271224	270437
15°	252456	254060	253258
20°	223174	226514	225236
25°	177950	184791	180088
30°	123092	127567	122645
35°	69113	81412	70532
40°	29845	44008	29845
45°	11508	17536	11508
50°	4220	6028	3617
55°	676	2027	1351
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: 17536 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	12.0
10°-20°	175.4	31.3
20°-30°	191.2	34.1
30°-40°	101.2	18.1
40°-50°	22.8	4.1
50°-60°	2.4	0.4
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°	434.0	77.4
0°-40°	535.2	95.5
0°-60°	560.4	100.0
0°-90°	560.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	560.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	716	714	715	714	714	67
15°	629	629	633	630	631	175
25°	416	428	432	428	421	188
35°	146	161	172	160	149	94
45°	21	24	32	24	21	19
55°	1	2	3	2	2	2
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°	721.3	721.3	721.3	721.3	721.3
2.5°	721.3	720.3	721.3	720.3	719.3
5°	716.3	714.3	715.3	714.3	714.3
7.5°	703.3	703.3	704.3	704.3	703.3
10°	686.3	688.3	689.3	688.3	687.3
12.5°	662.3	660.3	664.3	662.3	659.3
15°	629.3	629.3	633.3	630.3	631.3
17.5°	589.3	594.3	596.3	592.3	592.3
20°	541.2	546.2	549.3	549.3	546.2
22.5°	487.2	495.2	494.2	494.2	488.2
25°	416.2	428.2	432.2	428.2	421.2
27.5°	348.2	347.2	357.2	352.2	346.2
30°	275.1	280.1	285.1	281.1	274.1
32.5°	213.1	221.1	226.1	219.1	215.1
35°	146.1	161.1	172.1	160.1	149.1
37.5°	90.0	104.0	124.1	106.0	93.0
40°	59.0	65.0	87.0	66.0	59.0
42.5°	37.0	41.0	56.0	41.0	37.0
45°	21.0	24.0	32.0	24.0	21.0
47.5°	12.0	13.0	17.0	13.0	11.0
50°	7.0	8.0	10.0	7.0	6.0
52.5°	3.0	4.0	5.0	4.0	3.0
55°	1.0	2.0	3.0	2.0	2.0
57.5°	0.0	1.0	1.0	1.0	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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