

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: P886418

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMBB-550LM-4000K

Issue Date: 6/20/2024

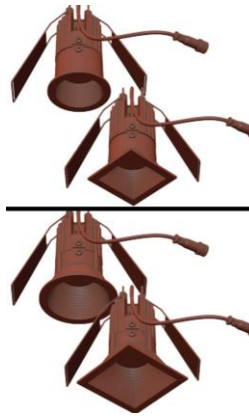
Test Information

Test Method: LM-79-2019
Report Number: P886418
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-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 618.8 lumens
Efficiency: N/A
Efficacy: 78.3 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

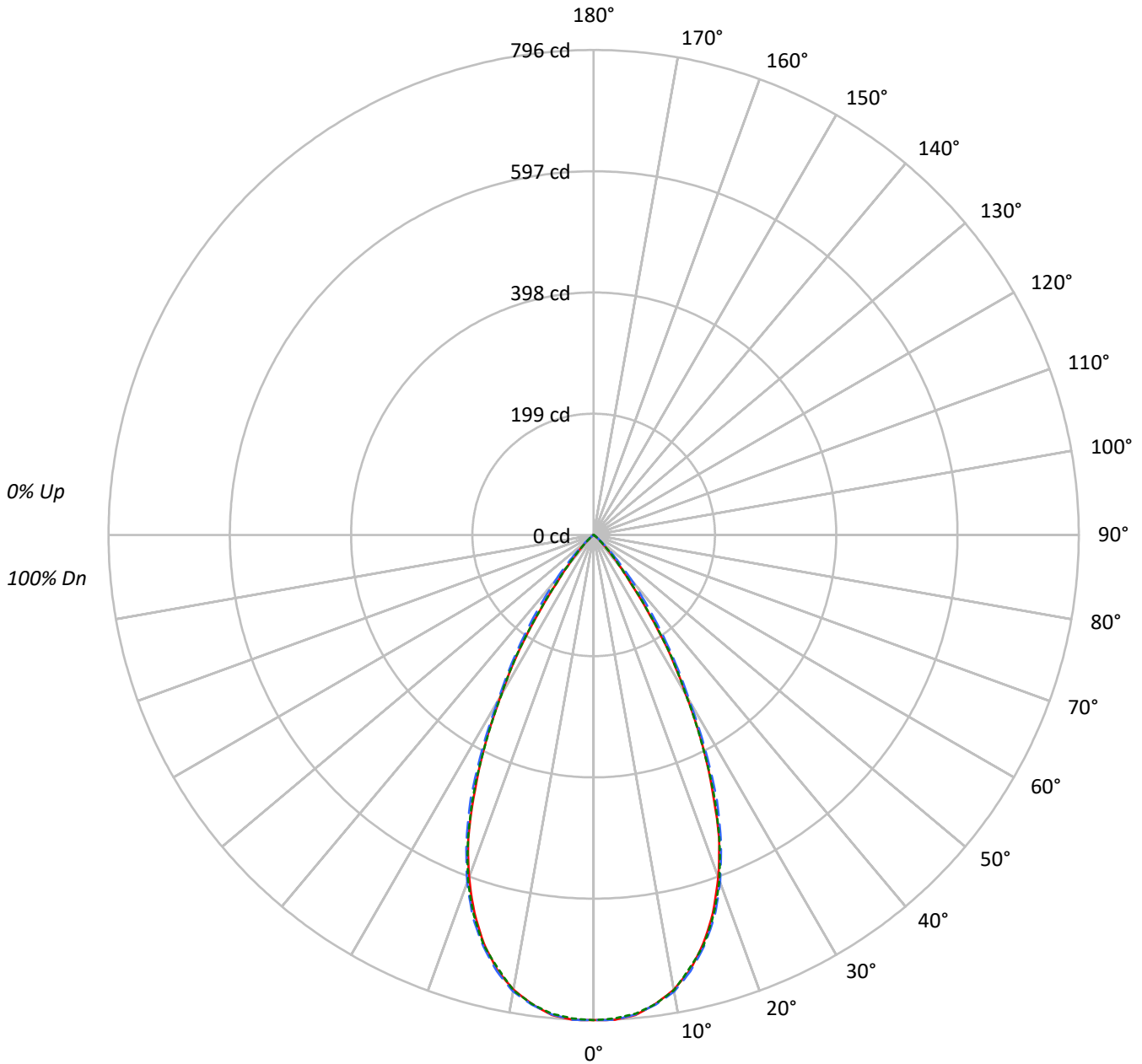
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
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	100	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88	88		
	3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83	83	83	83	83	83		
	4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73	73	73	73	73	73		
	6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68	68	68	68	68	68		
	7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64	64	64	64	64	64		
	8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	61	59	57	57	57	57	57	57		
	10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54	54	54	54	54	54		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	308643	308643	308643
5°	307683	307255	306827
10°	298177	299475	298610
15°	278772	280537	279655
20°	246431	250101	248741
25°	196506	204031	198857
30°	135934	140856	135442
35°	76303	89879	77864
40°	32981	48612	32981
45°	12714	19399	12714
50°	4642	6631	3979
55°	743	2229	1486
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: 19399 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	12.0
10°-20°	193.7	31.3
20°-30°	211.1	34.1
30°-40°	111.8	18.1
40°-50°	25.2	4.1
50°-60°	2.6	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°	479.2	77.4
0°-40°	591.0	95.5
0°-60°	618.8	100.0
0°-90°	618.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	618.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	791	789	790	789	789	74
15°	695	695	699	696	697	193
25°	460	473	477	473	465	208
35°	161	178	190	177	165	104
45°	23	26	35	26	23	21
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°	796.5	796.5	796.5	796.5	796.5
2.5°	796.5	795.4	796.5	795.4	794.3
5°	791.0	788.8	789.9	788.8	788.8
7.5°	776.6	776.6	777.7	777.7	776.6
10°	757.8	760.0	761.1	760.0	758.9
12.5°	731.3	729.1	733.5	731.3	728.0
15°	694.9	694.9	699.3	696.0	697.1
17.5°	650.7	656.2	658.4	654.0	654.0
20°	597.6	603.2	606.5	606.5	603.2
22.5°	538.0	546.8	545.7	545.7	539.1
25°	459.6	472.8	477.2	472.8	465.1
27.5°	384.4	383.3	394.4	388.9	382.2
30°	303.8	309.3	314.8	310.4	302.7
32.5°	235.3	244.1	249.7	241.9	237.5
35°	161.3	177.9	190.0	176.8	164.6
37.5°	99.4	114.9	137.0	117.1	102.7
40°	65.2	71.8	96.1	72.9	65.2
42.5°	40.9	45.3	61.9	45.3	40.9
45°	23.2	26.5	35.4	26.5	23.2
47.5°	13.3	14.4	18.8	14.4	12.2
50°	7.7	8.8	11.0	7.7	6.6
52.5°	3.3	4.4	5.5	4.4	3.3
55°	1.1	2.2	3.3	2.2	2.2
57.5°	0.0	1.1	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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