

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: P886358

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDMBB-550LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886358
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-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

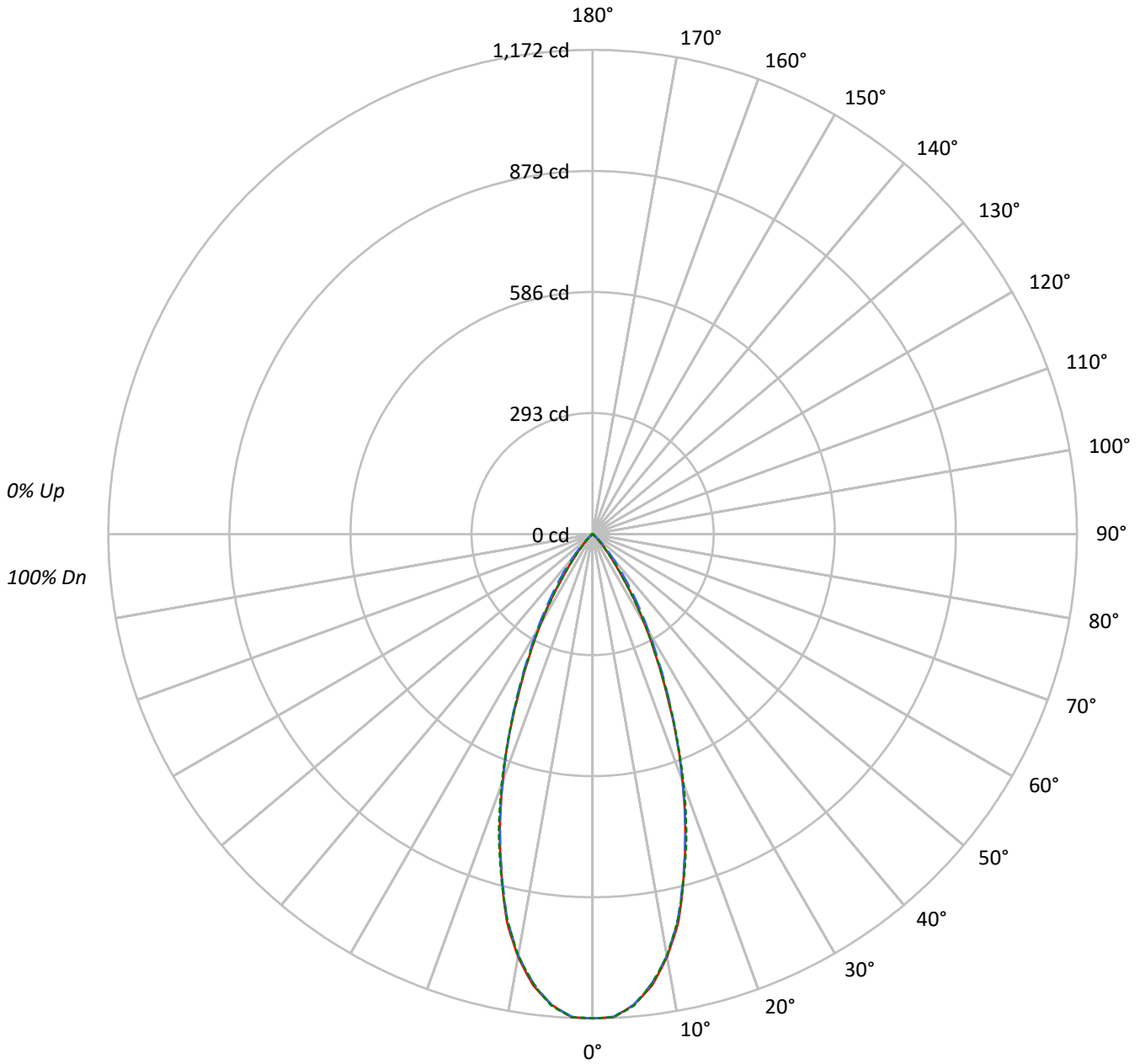
Lumens per Lamp: N/A
Luminaire Lumens: 646.7 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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°	454304	454304	454304
5°	444876	444876	445732
10°	408705	407406	407839
15°	342237	340873	343120
20°	262472	261565	265194
25°	179532	184235	181883
30°	112712	120139	113696
35°	56955	71620	57476
40°	25697	37989	25140
45°	9097	16331	8494
50°	1989	6631	2653
55°	743	1486	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: 16331 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	16.4
10°-20°	234.6	36.3
20°-30°	196.4	30.4
30°-40°	88.6	13.7
40°-50°	19.7	3.0
50°-60°	1.7	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°	536.7	83.0
0°-40°	625.3	96.7
0°-60°	646.7	100.0
0°-90°	646.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1144	1144	1144	1143	1146	106
15°	853	852	850	856	855	235
25°	420	429	431	428	425	194
35°	120	137	151	135	122	81
45°	17	22	30	21	16	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°	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1170.2	1170.2	1169.1	1169.1	1170.2
5°	1143.7	1143.7	1143.7	1142.6	1145.9
7.5°	1101.7	1100.6	1097.3	1097.3	1098.4
10°	1038.7	1036.5	1035.4	1038.7	1036.5
12.5°	960.2	956.9	954.7	955.8	954.7
15°	853.1	851.9	849.7	856.4	855.3
17.5°	745.9	742.6	745.9	744.8	754.7
20°	636.5	639.8	634.3	638.7	643.1
22.5°	528.2	532.6	528.2	529.3	530.4
25°	419.9	428.7	430.9	427.6	425.4
27.5°	329.3	337.0	341.4	337.0	330.4
30°	251.9	255.3	268.5	258.6	254.1
32.5°	183.4	195.6	205.5	195.6	182.3
35°	120.4	137.0	151.4	134.8	121.5
37.5°	77.3	87.3	108.3	88.4	76.2
40°	50.8	55.2	75.1	56.4	49.7
42.5°	32.0	37.6	48.6	36.5	30.9
45°	16.6	22.1	29.8	21.0	15.5
47.5°	5.5	9.9	18.8	11.0	6.6
50°	3.3	4.4	11.0	4.4	4.4
52.5°	2.2	2.2	4.4	2.2	2.2
55°	1.1	1.1	2.2	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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