

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: P886299

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMBB-550LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-94)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMBB-550LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

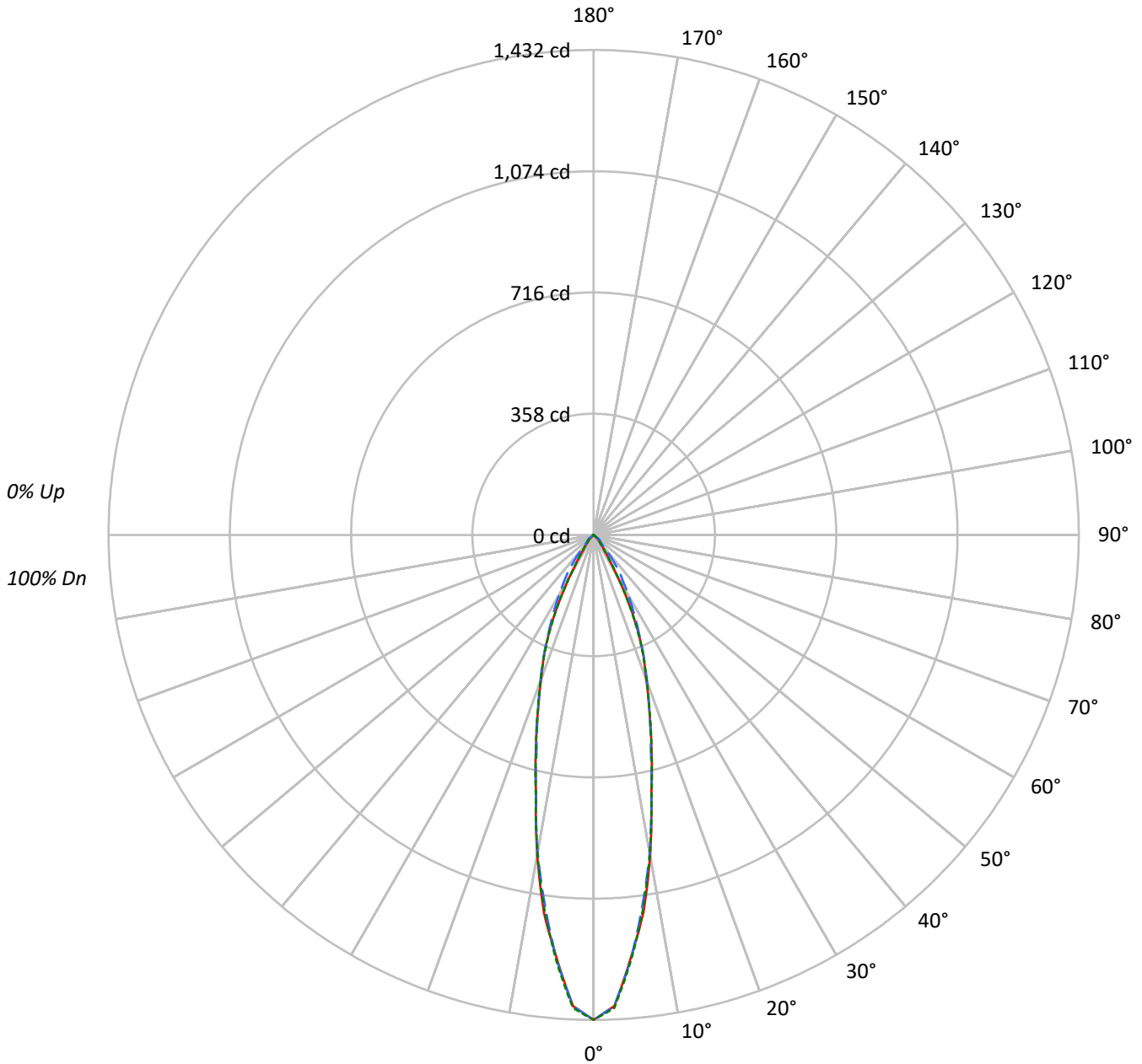
Lumens per Lamp: N/A
Luminaire Lumens: 508.1 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86					86			
4	101	95	90	86	99	93	89	86	91	88	85	90	86	84	88	85	83	82					82			
5	97	90	85	81	95	89	84	81	87	83	80	86	82	80	84	81	79	78					78			
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74					74			
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71					71			
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68					68			
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65					65			
10	80	72	67	64	79	72	67	64	71	67	64	70	66	63	69	66	63	62					62			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	554822	554822	554822
5°	487703	489064	490853
10°	377541	374354	375731
15°	264571	260840	263608
20°	186555	189442	188494
25°	129294	133270	126814
30°	59868	90563	60360
35°	24740	60503	25876
40°	14113	24685	14720
45°	8933	15289	9535
50°	723	12599	723
55°	811	3175	811
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: 15289 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	21.8
10°-20°	184.3	36.3
20°-30°	140.1	27.6
30°-40°	54.6	10.7
40°-50°	16.2	3.2
50°-60°	2.3	0.5
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°	435.0	85.6
0°-40°	489.6	96.3
0°-60°	508.1	100.0
0°-90°	508.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1254	1261	1257	1255	1262	111
15°	660	655	650	660	657	184
25°	302	314	312	312	297	134
35°	52	70	128	72	55	39
45°	16	21	28	21	17	11
55°	1	1	5	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°	1431.8	1431.8	1431.8	1431.8	1431.8
2.5°	1392.2	1393.4	1392.2	1398.0	1398.0
5°	1253.8	1260.8	1257.3	1255.0	1261.9
7.5°	1124.7	1109.6	1102.6	1107.3	1115.4
10°	959.5	954.9	951.4	956.1	954.9
12.5°	786.2	789.7	786.2	792.1	788.6
15°	659.5	654.8	650.2	659.5	657.1
17.5°	546.7	551.3	546.7	549.0	549.0
20°	452.4	460.6	459.4	460.6	457.1
22.5°	382.7	381.5	383.8	382.7	379.2
25°	302.4	314.0	311.7	311.7	296.6
27.5°	216.3	240.8	253.6	244.2	214.0
30°	133.8	174.5	202.4	168.6	134.9
32.5°	84.9	111.7	161.7	109.3	86.1
35°	52.3	69.8	127.9	72.1	54.7
37.5°	37.2	50.0	88.4	50.0	37.2
40°	27.9	34.9	48.8	34.9	29.1
42.5°	22.1	26.8	32.6	26.8	23.3
45°	16.3	20.9	27.9	20.9	17.4
47.5°	4.7	14.0	24.4	14.0	7.0
50°	1.2	2.3	20.9	4.7	1.2
52.5°	1.2	1.2	15.1	1.2	1.2
55°	1.2	1.2	4.7	1.2	1.2
57.5°	0.0	0.0	1.2	0.0	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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