

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: P886317

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDSLB-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-93)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2SDSLB-550LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 512.0 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

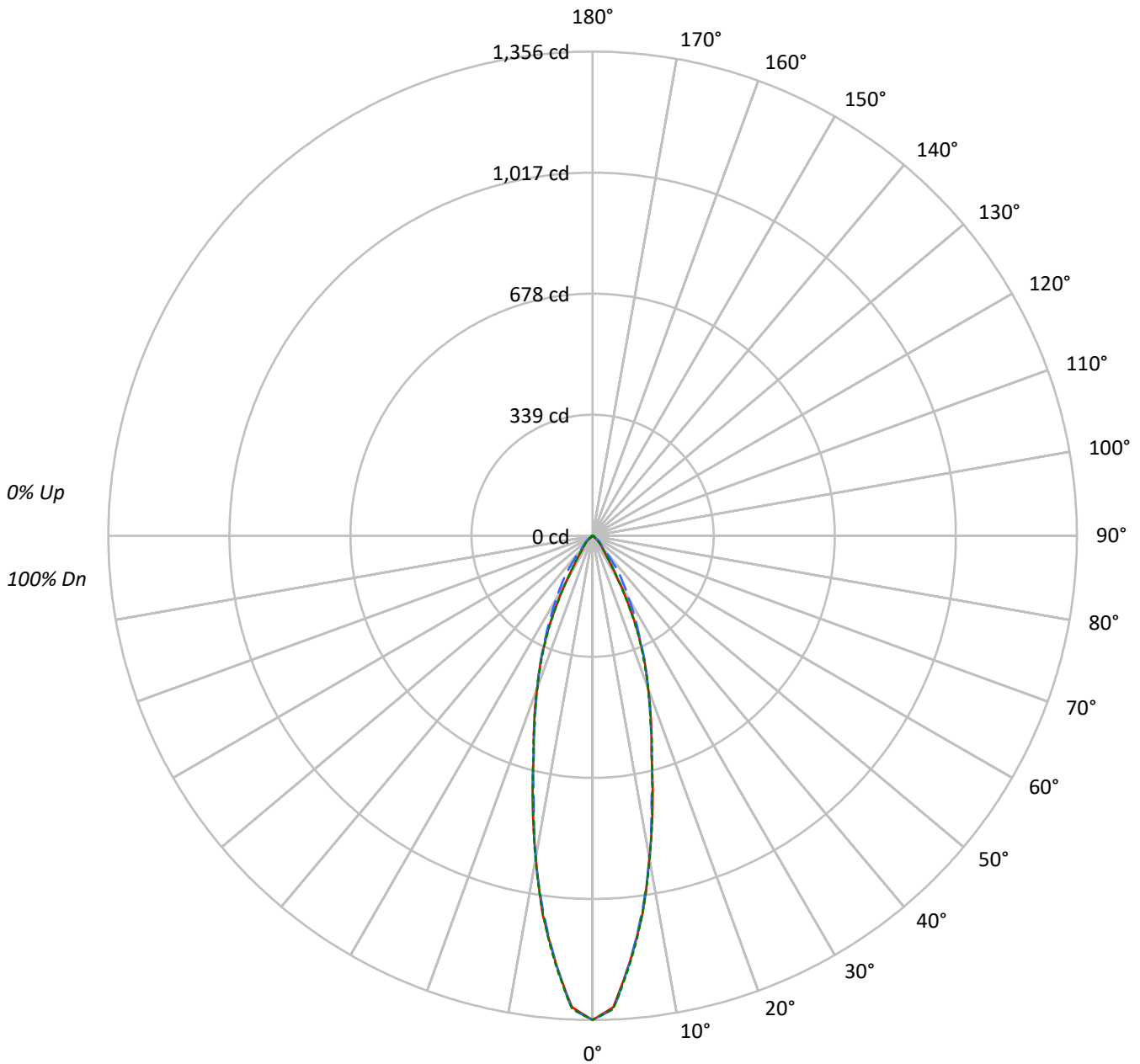
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95	95	95	95	95	95		
	2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90	90	90	90	90	90		
	3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85	85	85	85	85	85		
	4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80	80	80	80	80	80		
	5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76	76	76	76	76	76		
	6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	73	73	73	73	73	73		
	7	89	80	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69	69	69	69	69	69		
	8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	66	66	66		
	9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63	63	63	63	63	63		
	10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60	60	60	60	60	60		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	525333	525333	525333
5°	465414	465414	467476
10°	360228	361094	361920
15°	255424	256708	256708
20°	187215	186803	187215
25°	128353	132458	126985
30°	64074	90339	64522
35°	29802	59652	31836
40°	19981	27012	19981
45°	13481	16988	12878
50°	5124	13504	5124
55°	3581	4324	3581
60°	2480	1627	2480
65°	1925	1009	1925
70°	1246	1246	1246
75°	1647	1647	1647
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16988 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	20.6
10°-20°	179.9	35.1
20°-30°	139.2	27.2
30°-40°	58.5	11.4
40°-50°	20.6	4.0
50°-60°	5.4	1.1
60°-70°	1.9	0.4
70°-80°	0.9	0.2
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°	424.7	83.0
0°-40°	483.2	94.4
0°-60°	509.2	99.5
0°-90°	512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1196	1202	1196	1199	1202	106
15°	637	641	640	642	640	180
25°	300	310	310	309	297	134
35°	63	79	126	80	67	46
45°	25	27	31	26	24	18
55°	5	4	6	4	5	5
65°	2	2	1	2	2	2
75°	1	1	1	1	1	1
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°	1355.7	1355.7	1355.7	1355.7	1355.7
2.5°	1321.5	1319.4	1326.8	1326.8	1325.8
5°	1196.5	1201.8	1196.5	1198.6	1201.8
7.5°	1069.4	1065.1	1060.8	1061.9	1068.3
10°	915.5	915.5	917.7	917.7	919.8
12.5°	775.6	762.8	761.7	769.2	769.2
15°	636.7	641.0	639.9	642.0	639.9
17.5°	542.7	537.4	536.3	540.6	539.5
20°	454.0	456.2	453.0	455.1	454.0
22.5°	379.2	378.2	379.2	380.3	372.8
25°	300.2	309.8	309.8	308.7	297.0
27.5°	217.9	241.4	251.1	237.2	214.7
30°	143.2	175.2	201.9	173.1	144.2
32.5°	95.1	116.4	162.4	117.5	97.2
35°	63.0	79.1	126.1	80.1	67.3
37.5°	48.1	57.7	87.6	56.6	49.1
40°	39.5	41.7	53.4	42.7	39.5
42.5°	32.0	33.1	37.4	33.1	32.0
45°	24.6	26.7	31.0	25.6	23.5
47.5°	11.8	18.2	26.7	17.1	15.0
50°	8.5	7.5	22.4	10.7	8.5
52.5°	6.4	5.3	16.0	5.3	6.4
55°	5.3	4.3	6.4	4.3	5.3
57.5°	4.3	3.2	3.2	3.2	4.3
60°	3.2	3.2	2.1	3.2	3.2
62.5°	3.2	2.1	2.1	2.1	3.2
65°	2.1	2.1	1.1	2.1	2.1
67.5°	2.1	1.1	1.1	1.1	2.1
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	0.0	1.1	1.1
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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