

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: P886370

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDSL-550LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-96)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2SDSL-550LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

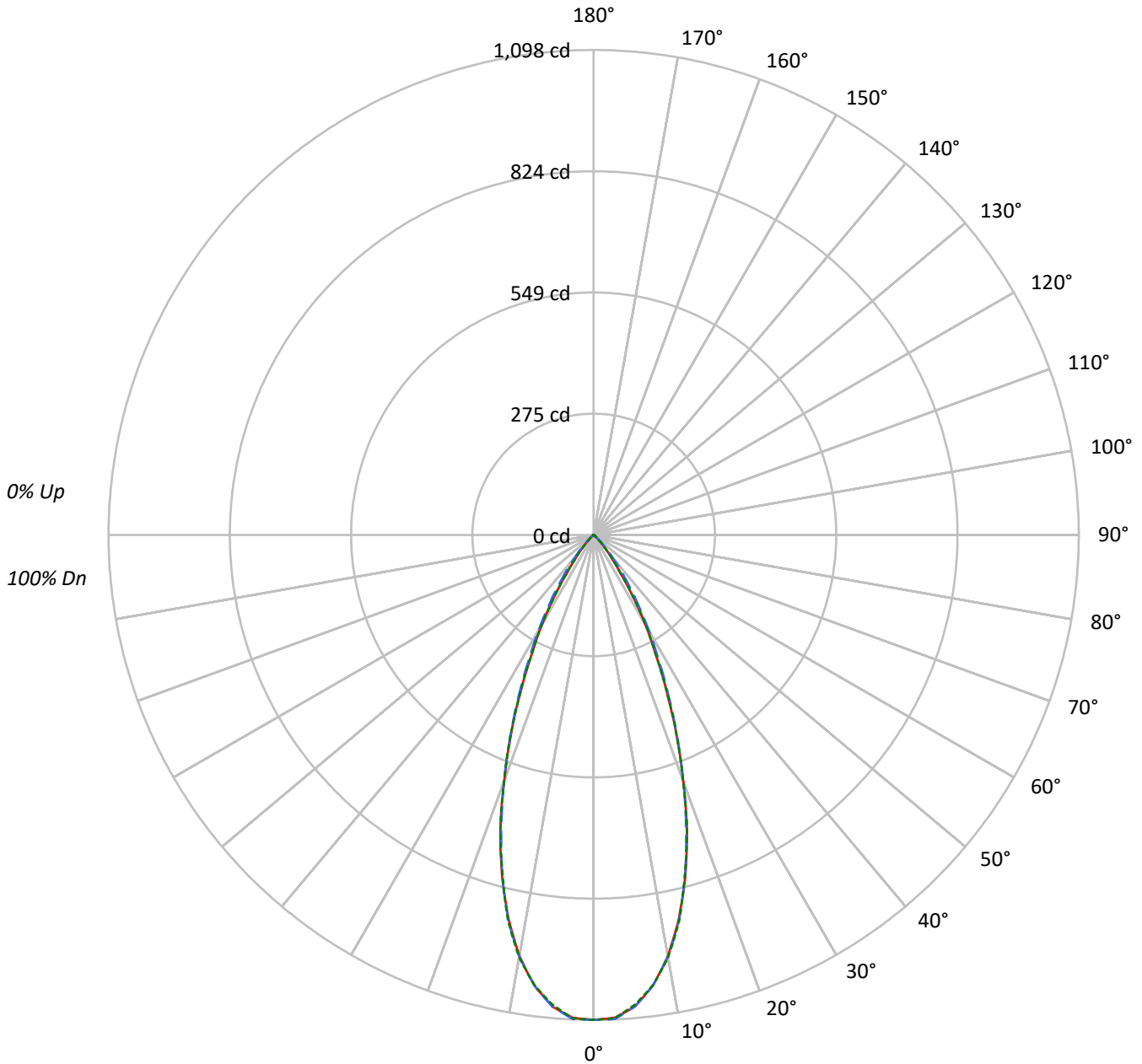
Lumens per Lamp: N/A
Luminaire Lumens: 601.6 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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									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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95																			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89																			
3	105	99	94	91	103	97	93	90	95	91	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	74	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	67	73	69	66	72	69	66	65																			
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62																			
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	106369	106369	106369
5°	104247	104247	103858
10°	95212	95311	95507
15°	80304	80104	79903
20°	61082	61186	61082
25°	41623	42799	41837
30°	26086	27764	26310
35°	12429	16332	12903
40°	5944	8359	5817
45°	2055	3562	2055
50°	754	1356	754
55°	338	338	338
60°	194	194	194
65°	229	229	229
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: 3562 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	16.4
10°-20°	219.1	36.4
20°-30°	182.1	30.3
30°-40°	80.6	13.4
40°-50°	18.0	3.0
50°-60°	2.2	0.4
60°-70°	0.7	0.1
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°	500.1	83.1
0°-40°	580.7	96.5
0°-60°	600.8	99.9
0°-90°	601.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	601.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1072	1072	1072	1071	1068	99
15°	801	796	799	796	797	219
25°	389	397	400	398	391	180
35°	105	122	138	122	109	73
45°	15	20	26	19	15	15
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
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°	1098.0	1098.0	1098.0	1098.0	1098.0
2.5°	1094.0	1095.0	1097.0	1094.0	1095.0
5°	1072.0	1072.0	1072.0	1071.0	1068.0
7.5°	1029.0	1028.0	1029.0	1026.9	1028.0
10°	967.9	970.9	968.9	968.9	970.9
12.5°	889.8	898.8	892.8	891.8	894.8
15°	800.7	795.7	798.7	795.7	796.7
17.5°	702.6	692.6	694.6	698.6	702.6
20°	592.5	594.5	593.5	594.5	592.5
22.5°	489.5	495.5	493.5	493.5	491.5
25°	389.4	397.4	400.4	398.4	391.4
27.5°	302.3	307.3	318.3	308.3	301.3
30°	233.2	238.2	248.2	237.2	235.2
32.5°	167.2	178.2	188.2	177.2	164.2
35°	105.1	122.1	138.1	122.1	109.1
37.5°	69.1	78.1	99.1	78.1	71.1
40°	47.0	52.0	66.1	51.0	46.0
42.5°	29.0	34.0	42.0	33.0	29.0
45°	15.0	20.0	26.0	19.0	15.0
47.5°	8.0	9.0	17.0	10.0	7.0
50°	5.0	5.0	9.0	5.0	5.0
52.5°	3.0	3.0	4.0	3.0	3.0
55°	2.0	2.0	2.0	2.0	2.0
57.5°	1.0	1.0	2.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	0.0	0.0	1.0
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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