

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: P886378

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-4000K

Issue Date: 6/20/2024

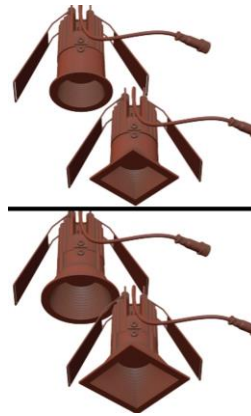
Test Information

Test Method: LM-79-2019
Report Number: P886378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

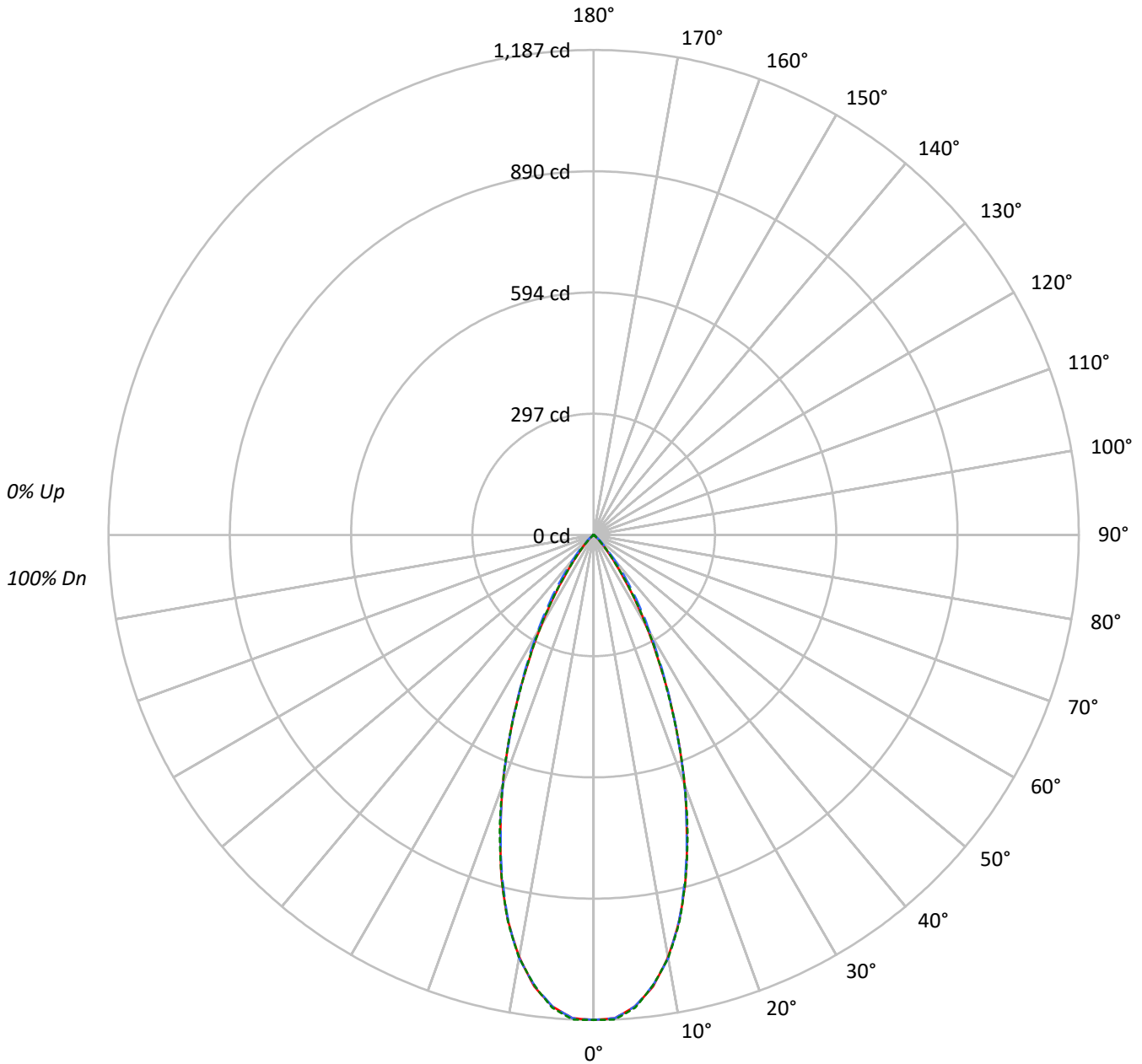
Lumens per Lamp: N/A
Luminaire Lumens: 664.9 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	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	92	91	89								
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84								
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80								
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75								
6	91	83	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71								
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68								
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64								
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61								
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	460039	460039	460039
5°	450633	450633	451916
10°	412797	413702	413230
15°	349097	347332	348656
20°	268246	268246	268246
25°	186501	186501	184620
30°	115620	122555	116112
35°	59037	73654	61118
40°	26810	39658	27923
45°	10905	16933	10905
50°	3979	8018	3979
55°	2229	2229	2229
60°	852	852	852
65°	1009	1009	1009
70°	1246	0	1246
75°	1647	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16933 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	16.1
10°-20°	238.3	35.8
20°-30°	200.6	30.2
30°-40°	92.2	13.9
40°-50°	22.1	3.3
50°-60°	3.3	0.5
60°-70°	1.1	0.2
70°-80°	0.2	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°	546.0	82.1
0°-40°	638.2	96.0
0°-60°	663.7	99.8
0°-90°	664.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	664.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1158	1160	1158	1160	1162	107
15°	870	872	866	866	869	238
25°	436	437	436	437	432	199
35°	125	142	156	144	129	84
45°	20	24	31	25	20	18
55°	3	3	3	3	3	3
65°	1	1	1	1	1	1
75°	1	0	0	0	0	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°	1187.2	1187.2	1187.2	1187.2	1187.2
2.5°	1183.9	1182.8	1183.9	1185.0	1187.2
5°	1158.5	1159.6	1158.5	1159.6	1161.8
7.5°	1114.3	1115.4	1112.1	1113.2	1112.1
10°	1049.1	1051.4	1051.4	1051.4	1050.2
12.5°	967.4	967.4	966.3	963.0	969.6
15°	870.2	872.4	865.8	865.8	869.1
17.5°	757.6	758.7	756.5	763.1	764.2
20°	650.5	651.6	650.5	649.4	650.5
22.5°	538.9	543.3	537.8	545.6	540.0
25°	436.2	437.3	436.2	437.3	431.8
27.5°	337.9	340.1	350.1	344.6	340.1
30°	258.4	263.9	273.9	263.9	259.5
32.5°	187.7	201.0	212.0	204.3	191.1
35°	124.8	142.5	155.7	143.6	129.2
37.5°	82.8	91.7	111.5	93.9	83.9
40°	53.0	59.6	78.4	60.7	55.2
42.5°	35.3	39.8	50.8	40.9	36.4
45°	19.9	24.3	30.9	25.4	19.9
47.5°	9.9	13.3	21.0	13.3	9.9
50°	6.6	6.6	13.3	6.6	6.6
52.5°	4.4	4.4	6.6	4.4	4.4
55°	3.3	3.3	3.3	3.3	3.3
57.5°	2.2	2.2	2.2	2.2	2.2
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.0	1.1	1.1
72.5°	1.1	0.0	0.0	0.0	1.1
75°	1.1	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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