

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: P886306

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMWB-550LM-3000K

Issue Date: 6/20/2024

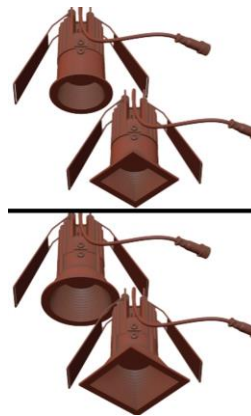
Test Information

Test Method: LM-79-2019
Report Number: P886306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-92)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMWB-550LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

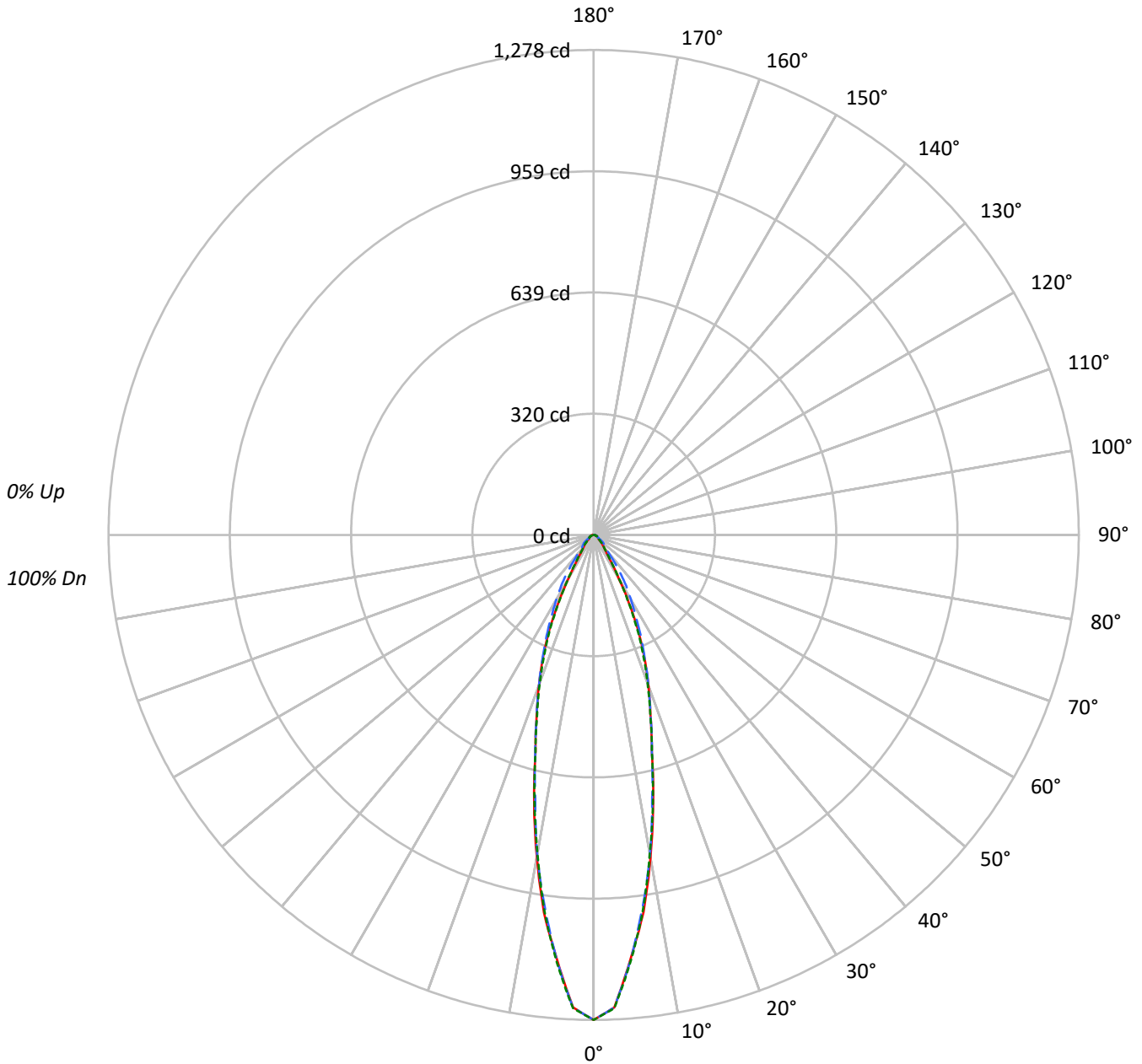
Lumens per Lamp: N/A
Luminaire Lumens: 511.6 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.46 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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									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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82																			
4	98	91	86	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72																			
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69																			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65																			
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62																			
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59																			
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	495263	495263	495263
5°	435346	436552	438147
10°	339217	336777	335164
15°	237332	238134	237332
20°	173690	173690	170720
25°	118305	125360	114329
30°	59152	87297	60987
35°	28809	57144	30275
40°	20386	30806	20891
45°	16385	22085	15289
50°	9947	19894	9947
55°	9796	12566	9796
60°	9610	9610	9610
65°	9444	9444	9444
70°	8157	9404	9404
75°	9283	9283	9283
80°	9149	6918	9149
85°	9337	4446	9337

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 22085 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	19.3
10°-20°	166.9	32.6
20°-30°	128.9	25.2
30°-40°	57.3	11.2
40°-50°	26.4	5.2
50°-60°	14.5	2.8
60°-70°	10.2	2.0
70°-80°	6.4	1.2
80°-90°	2.0	0.4
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°	394.7	77.2
0°-40°	452.0	88.4
0°-60°	492.9	96.4
0°-90°	511.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	511.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1119	1123	1122	1124	1126	99
15°	592	595	594	595	592	168
25°	277	289	293	283	267	124
35°	61	78	121	80	64	44
45°	30	34	40	33	28	22
55°	14	14	19	14	14	13
65°	10	10	10	10	10	10
75°	6	6	6	6	6	6
85°	2	2	1	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1278.1	1278.1	1278.1	1278.1	1278.1
2.5°	1246.1	1245.1	1246.1	1248.2	1248.2
5°	1119.2	1123.3	1122.3	1124.3	1126.4
7.5°	1003.5	994.2	988.0	990.1	996.3
10°	862.1	850.7	855.9	852.8	851.8
12.5°	724.8	713.4	711.3	714.4	720.6
15°	591.6	594.7	593.6	594.7	591.6
17.5°	498.7	497.6	498.7	498.7	495.6
20°	421.2	418.1	421.2	419.2	414.0
22.5°	349.0	353.1	351.0	352.1	339.7
25°	276.7	289.1	293.2	282.9	267.4
27.5°	200.3	223.0	237.5	217.8	194.1
30°	132.2	162.1	195.1	159.0	136.3
32.5°	89.8	111.5	159.0	113.6	91.9
35°	60.9	78.5	120.8	80.5	64.0
37.5°	48.5	58.8	86.7	59.9	49.6
40°	40.3	47.5	60.9	47.5	41.3
42.5°	35.1	39.2	46.5	39.2	36.1
45°	29.9	34.1	40.3	33.0	27.9
47.5°	21.7	26.8	36.1	25.8	22.7
50°	16.5	18.6	33.0	20.6	16.5
52.5°	15.5	15.5	26.8	15.5	15.5
55°	14.5	14.5	18.6	14.5	14.5
57.5°	13.4	13.4	14.5	14.5	13.4
60°	12.4	12.4	12.4	13.4	12.4
62.5°	11.4	11.4	11.4	11.4	11.4
65°	10.3	10.3	10.3	10.3	10.3
67.5°	9.3	9.3	9.3	9.3	9.3
70°	7.2	8.3	8.3	8.3	8.3
72.5°	6.2	7.2	7.2	7.2	6.2
75°	6.2	6.2	6.2	6.2	6.2
77.5°	5.2	5.2	5.2	5.2	4.1
80°	4.1	4.1	3.1	4.1	4.1
82.5°	2.1	3.1	2.1	3.1	2.1
85°	2.1	2.1	1.0	2.1	2.1
87.5°	1.0	1.0	1.0	1.0	1.0
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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