

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: P886315

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDSLB-550LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886315
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-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

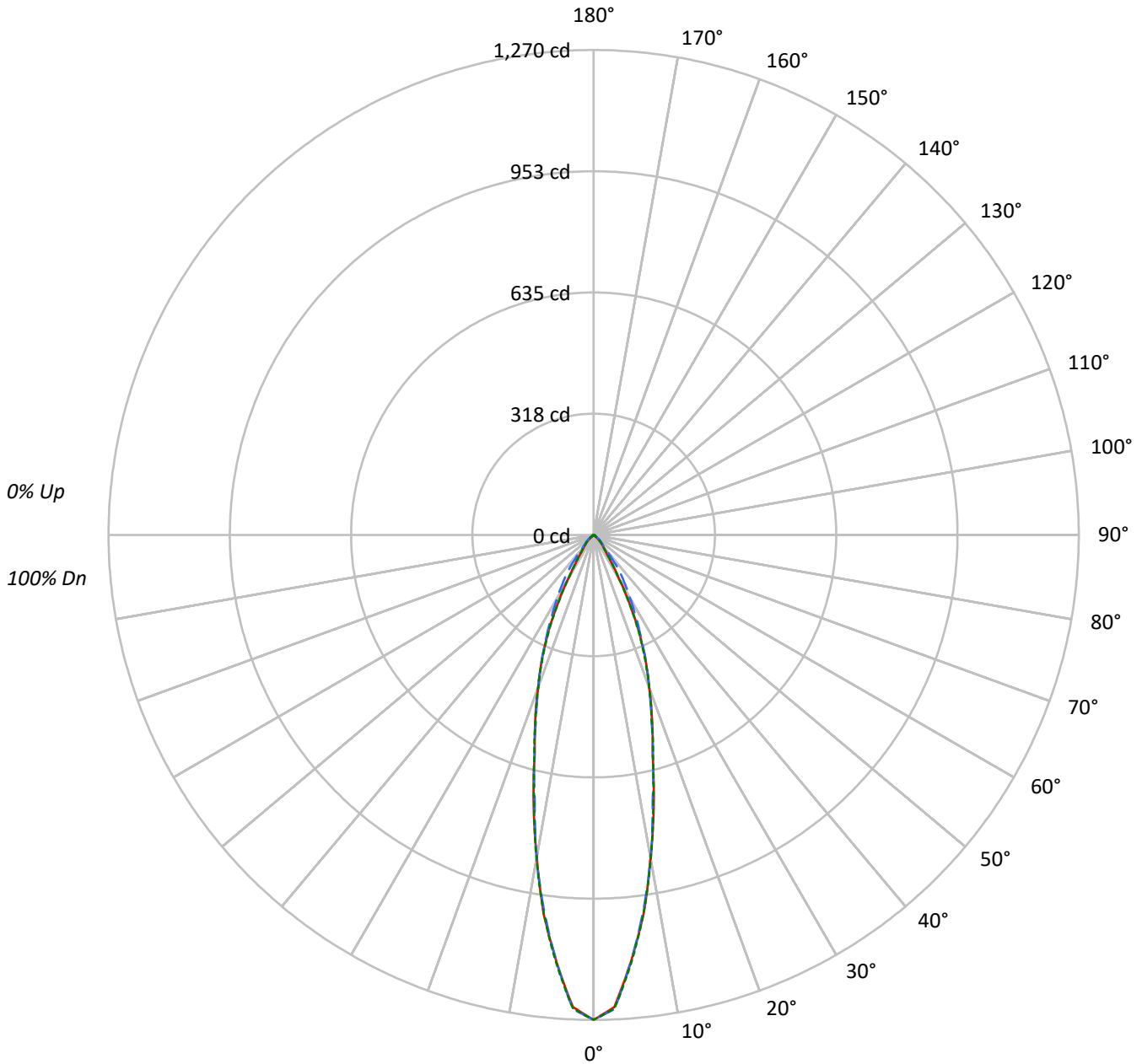
Lumens per Lamp: N/A
Luminaire Lumens: 479.5 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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								
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90								
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85								
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80								
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76								
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	73								
7	89	80	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69								
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66								
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63								
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	492008	492008	492008
5°	435891	435891	437835
10°	337407	338194	338981
15°	239217	240421	240421
20°	175339	174927	175339
25°	120229	124077	118947
30°	60002	84612	60450
35°	27910	55867	29802
40°	18716	25292	18716
45°	12604	15892	12056
50°	4823	12660	4823
55°	3378	4054	3378
60°	2325	1550	2325
65°	1834	917	1834
70°	1133	1133	1133
75°	1497	1497	1497
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	20.6
10°-20°	168.4	35.1
20°-30°	130.3	27.2
30°-40°	54.8	11.4
40°-50°	19.2	4.0
50°-60°	5.1	1.1
60°-70°	1.8	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°	397.8	83.0
0°-40°	452.6	94.4
0°-60°	476.9	99.5
0°-90°	479.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	479.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1121	1126	1121	1123	1126	99
15°	596	600	599	601	599	169
25°	281	290	290	289	278	126
35°	59	74	118	75	63	43
45°	23	25	29	24	22	16
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.7	1269.7	1269.7	1269.7	1269.7
2.5°	1237.7	1235.7	1242.7	1242.7	1241.7
5°	1120.6	1125.6	1120.6	1122.6	1125.6
7.5°	1001.5	997.5	993.5	994.5	1000.5
10°	857.5	857.5	859.5	859.5	861.5
12.5°	726.4	714.4	713.4	720.4	720.4
15°	596.3	600.3	599.3	601.3	599.3
17.5°	508.3	503.3	502.3	506.3	505.3
20°	425.2	427.2	424.2	426.2	425.2
22.5°	355.2	354.2	355.2	356.2	349.2
25°	281.2	290.2	290.2	289.2	278.2
27.5°	204.1	226.1	235.1	222.1	201.1
30°	134.1	164.1	189.1	162.1	135.1
32.5°	89.0	109.1	152.1	110.1	91.0
35°	59.0	74.0	118.1	75.0	63.0
37.5°	45.0	54.0	82.0	53.0	46.0
40°	37.0	39.0	50.0	40.0	37.0
42.5°	30.0	31.0	35.0	31.0	30.0
45°	23.0	25.0	29.0	24.0	22.0
47.5°	11.0	17.0	25.0	16.0	14.0
50°	8.0	7.0	21.0	10.0	8.0
52.5°	6.0	5.0	15.0	5.0	6.0
55°	5.0	4.0	6.0	4.0	5.0
57.5°	4.0	3.0	3.0	3.0	4.0
60°	3.0	3.0	2.0	3.0	3.0
62.5°	3.0	2.0	2.0	2.0	3.0
65°	2.0	2.0	1.0	2.0	2.0
67.5°	2.0	1.0	1.0	1.0	2.0
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	0.0	1.0	1.0
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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