

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: P886508

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDSL-400LM-3500K

Issue Date: 6/20/2024

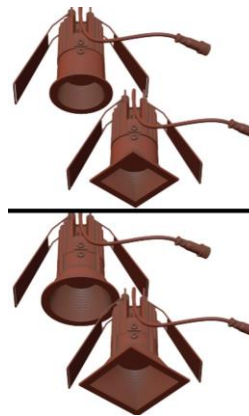
Test Information

Test Method: LM-79-2019
Report Number: P886508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-102)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D55WFL-TL2SDSL-400LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

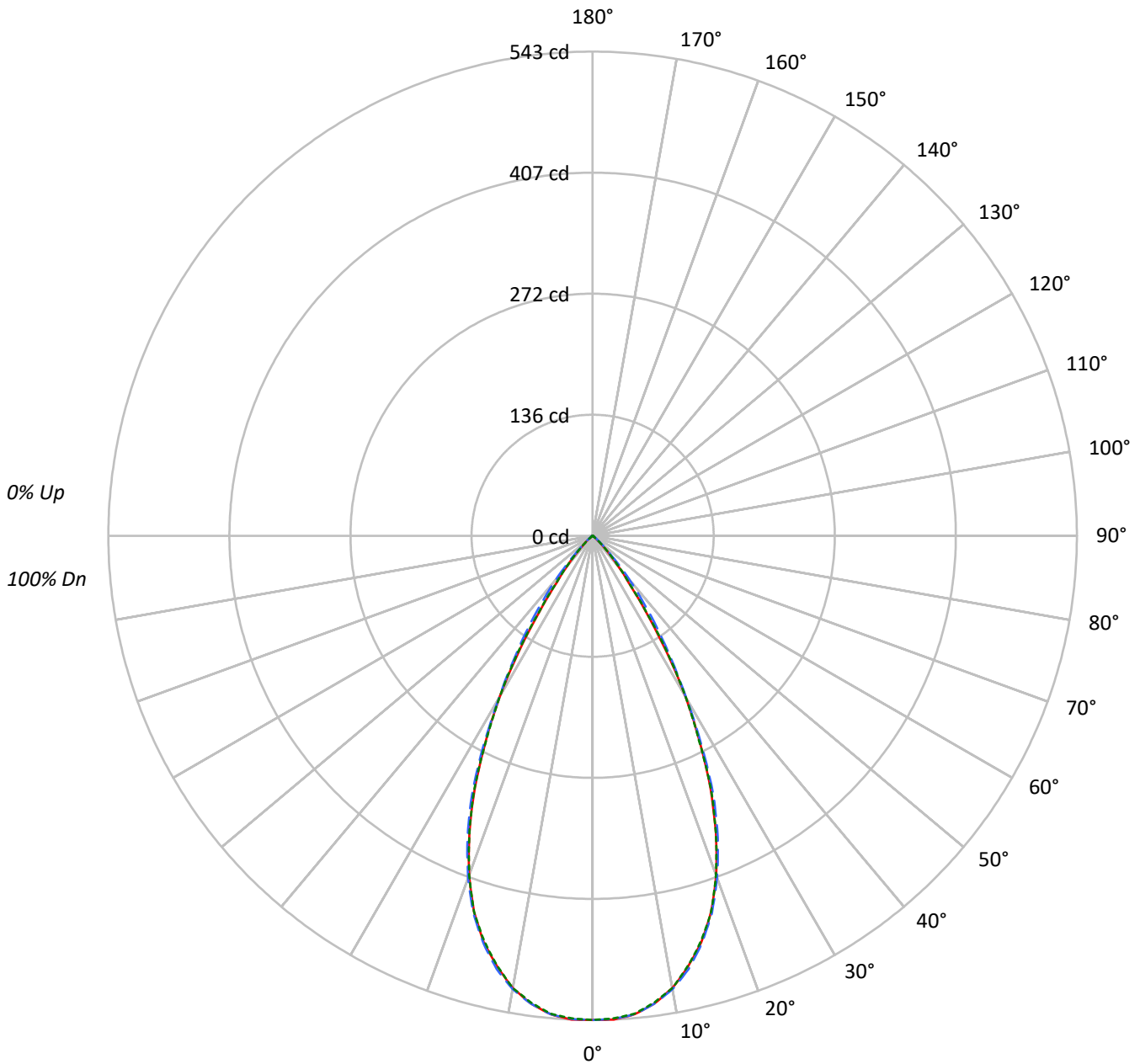
Lumens per Lamp: N/A
Luminaire Lumens: 417.1 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88								
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83								
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73								
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68								
7	85	77	71	67	84	76	71	67	75	70	66	73	69	66	72	69	66	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61								
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57								
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	210451	210451	210451
5°	209582	209582	209310
10°	202641	203192	202641
15°	189191	189793	188630
20°	167092	168287	166803
25°	133697	136819	134339
30°	93069	93740	93069
35°	48866	59462	50238
40°	23016	32526	23370
45°	9097	11892	9097
50°	3074	3918	3074
55°	946	1959	946
60°	542	542	542
65°	642	0	642
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: 11892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	12.1
10°-20°	131.0	31.4
20°-30°	141.8	34.0
30°-40°	74.0	17.7
40°-50°	17.0	4.1
50°-60°	2.2	0.5
60°-70°	0.5	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°	323.5	77.6
0°-40°	397.5	95.3
0°-60°	416.6	99.9
0°-90°	417.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	417.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	539	538	539	538	538	51
15°	472	472	473	472	470	131
25°	313	316	320	315	314	141
35°	103	116	126	117	106	69
45°	17	18	22	18	17	15
55°	1	2	3	2	1	2
65°	1	1	0	1	1	0
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°	543.1	543.1	543.1	543.1	543.1
2.5°	543.1	543.1	542.4	543.1	541.7
5°	538.8	538.1	538.8	538.1	538.1
7.5°	529.4	529.4	529.4	528.7	528.0
10°	515.0	515.7	516.4	515.7	515.0
12.5°	494.7	494.7	497.6	494.0	494.0
15°	471.6	471.6	473.1	471.6	470.2
17.5°	442.0	442.7	444.2	441.3	442.0
20°	405.2	405.9	408.1	406.6	404.5
22.5°	361.1	364.0	366.9	367.6	361.1
25°	312.7	315.6	320.0	314.9	314.2
27.5°	259.3	260.0	264.3	261.5	257.8
30°	208.0	208.0	209.5	207.3	208.0
32.5°	153.8	162.5	163.9	162.5	157.4
35°	103.3	116.3	125.7	117.0	106.2
37.5°	66.4	74.4	91.0	75.1	67.2
40°	45.5	47.7	64.3	47.7	46.2
42.5°	28.9	31.1	39.0	31.1	28.9
45°	16.6	18.1	21.7	18.1	16.6
47.5°	9.4	10.1	12.3	10.1	10.1
50°	5.1	5.8	6.5	5.8	5.1
52.5°	2.9	3.6	4.3	3.6	2.9
55°	1.4	2.2	2.9	2.2	1.4
57.5°	0.7	0.7	1.4	0.7	0.7
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.0	0.7	0.7
67.5°	0.0	0.7	0.0	0.0	0.7
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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