

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: P886509

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDSL-400LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886509
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-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

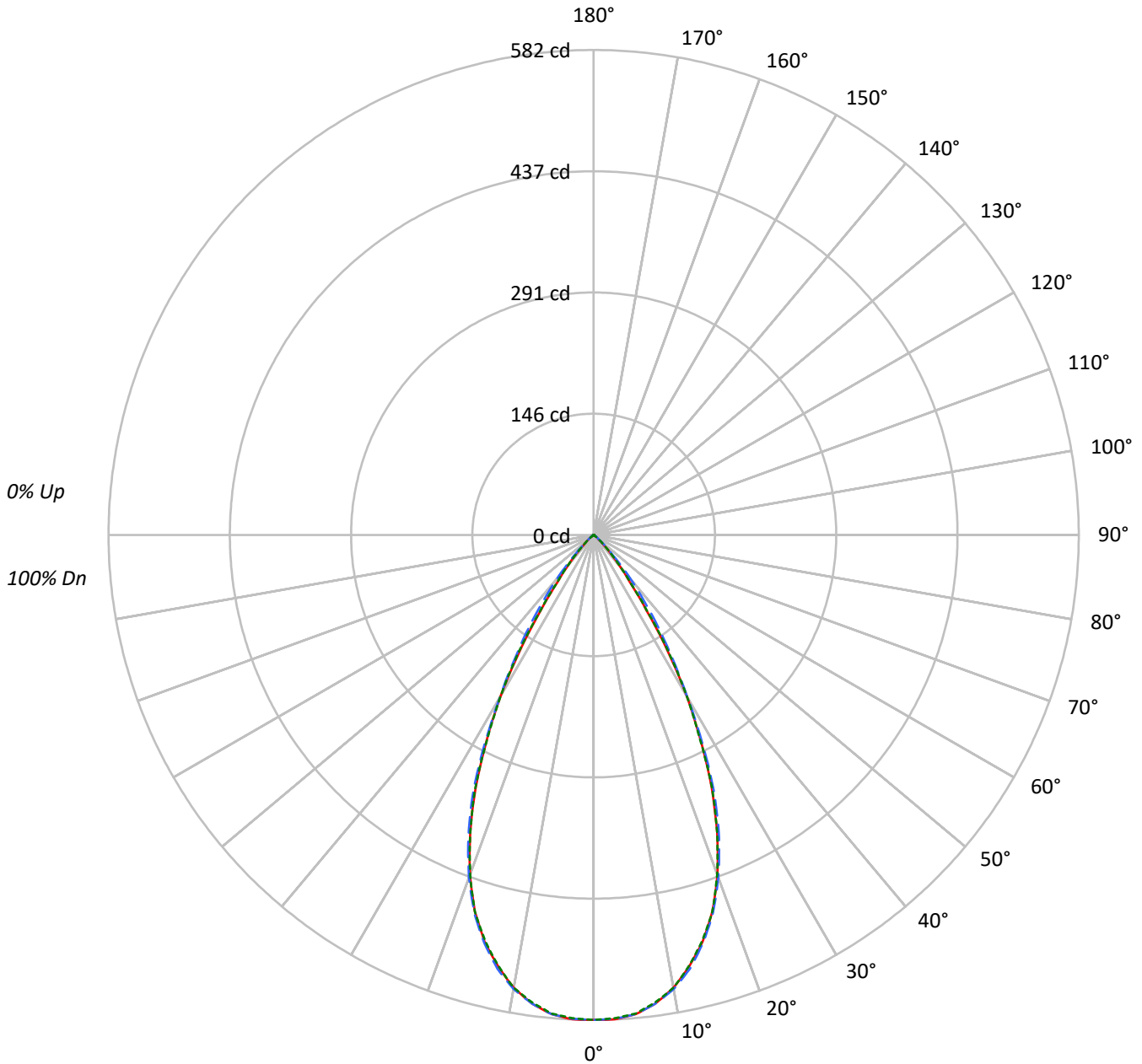
Lumens per Lamp: N/A
Luminaire Lumens: 447.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	70	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	62	58	55	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	225525	225525	225525
5°	224597	224597	224286
10°	217160	217750	217160
15°	202751	203393	202149
20°	179050	180329	178720
25°	143275	146610	143959
30°	99736	100452	99736
35°	52367	63720	53833
40°	24685	34853	25039
45°	9755	12714	9755
50°	3255	4220	3255
55°	1013	2094	1013
60°	620	620	620
65°	734	0	734
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: 12714 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	12.1
10°-20°	140.4	31.4
20°-30°	152.0	34.0
30°-40°	79.3	17.7
40°-50°	18.2	4.1
50°-60°	2.3	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°	346.7	77.6
0°-40°	425.9	95.3
0°-60°	446.5	99.9
0°-90°	447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	577	577	577	577	577	54
15°	505	505	507	505	504	140
25°	335	338	343	338	337	151
35°	111	125	135	125	114	74
45°	18	19	23	19	18	16
55°	2	2	3	2	2	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°	582.0	582.0	582.0	582.0	582.0
2.5°	582.0	582.0	581.3	582.0	580.5
5°	577.4	576.6	577.4	576.6	576.6
7.5°	567.3	567.3	567.3	566.6	565.8
10°	551.9	552.6	553.4	552.6	551.9
12.5°	530.2	530.2	533.3	529.4	529.4
15°	505.4	505.4	507.0	505.4	503.9
17.5°	473.7	474.5	476.0	472.9	473.7
20°	434.2	435.0	437.3	435.8	433.4
22.5°	387.0	390.1	393.2	394.0	387.0
25°	335.1	338.2	342.9	337.5	336.7
27.5°	277.9	278.6	283.3	280.2	276.3
30°	222.9	222.9	224.5	222.1	222.9
32.5°	164.9	174.1	175.7	174.1	168.7
35°	110.7	124.6	134.7	125.4	113.8
37.5°	71.2	79.7	97.5	80.5	72.0
40°	48.8	51.1	68.9	51.1	49.5
42.5°	31.0	33.3	41.8	33.3	31.0
45°	17.8	19.3	23.2	19.3	17.8
47.5°	10.1	10.8	13.2	10.8	10.8
50°	5.4	6.2	7.0	6.2	5.4
52.5°	3.1	3.9	4.6	3.9	3.1
55°	1.5	2.3	3.1	2.3	1.5
57.5°	0.8	0.8	1.5	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.0	0.8	0.8
67.5°	0.0	0.8	0.0	0.0	0.8
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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