

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: P886484

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2SDSL-400LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-96)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2SDSL-400LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 434.3 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

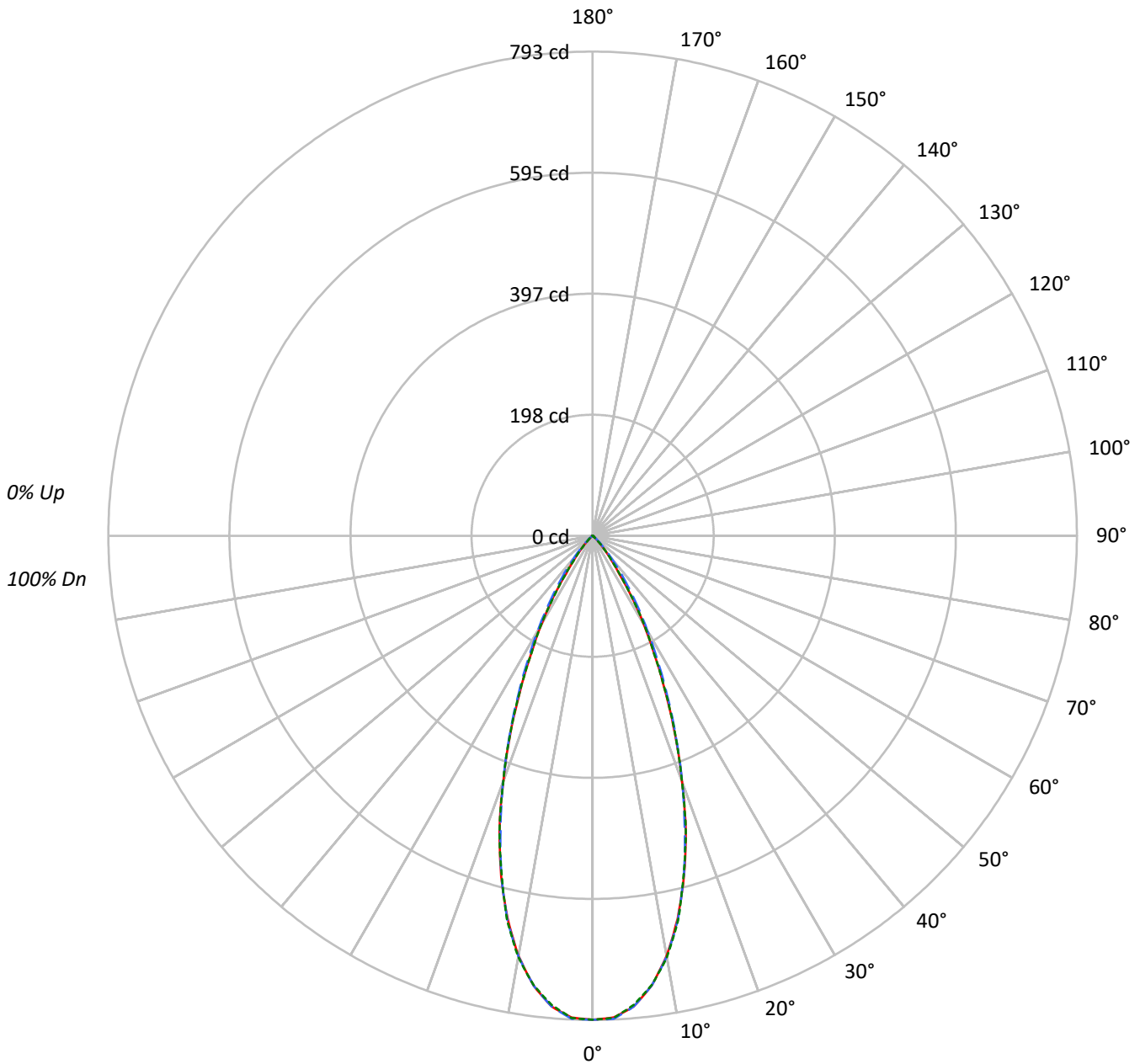
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	93	91	89																			
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85																			
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80																			
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76																			
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72																			
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68																			
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65																			
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62																			
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	76783	76783	76783
5°	75258	75258	74976
10°	68731	68800	68947
15°	57969	57829	57688
20°	44103	44175	44103
25°	30047	30891	30196
30°	18838	20046	18994
35°	8976	11791	9319
40°	4300	6032	4199
45°	1480	2576	1480
50°	543	980	543
55°	236	236	236
60°	136	136	136
65°	160	160	160
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: 2576 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	16.4
10°-20°	158.2	36.4
20°-30°	131.4	30.3
30°-40°	58.2	13.4
40°-50°	13.0	3.0
50°-60°	1.6	0.4
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°	361.0	83.1
0°-40°	419.2	96.5
0°-60°	433.8	99.9
0°-90°	434.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	434.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	774	774	774	773	771	71
15°	578	574	577	574	575	158
25°	281	287	289	288	282	130
35°	76	88	100	88	79	53
45°	11	14	19	14	11	11
55°	1	1	1	1	1	1
65°	1	1	1	1	1	1
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°	792.6	792.6	792.6	792.6	792.6
2.5°	789.8	790.5	791.9	789.8	790.5
5°	773.9	773.9	773.9	773.1	771.0
7.5°	742.8	742.1	742.8	741.3	742.1
10°	698.7	700.9	699.4	699.4	700.9
12.5°	642.4	648.9	644.5	643.8	646.0
15°	578.0	574.4	576.6	574.4	575.2
17.5°	507.2	500.0	501.5	504.3	507.2
20°	427.8	429.2	428.5	429.2	427.8
22.5°	353.3	357.7	356.2	356.2	354.8
25°	281.1	286.9	289.0	287.6	282.5
27.5°	218.2	221.8	229.8	222.5	217.5
30°	168.4	172.0	179.2	171.2	169.8
32.5°	120.7	128.6	135.8	127.9	118.5
35°	75.9	88.2	99.7	88.2	78.8
37.5°	49.9	56.4	71.5	56.4	51.3
40°	34.0	37.6	47.7	36.9	33.2
42.5°	21.0	24.6	30.3	23.8	21.0
45°	10.8	14.5	18.8	13.7	10.8
47.5°	5.8	6.5	12.3	7.2	5.1
50°	3.6	3.6	6.5	3.6	3.6
52.5°	2.2	2.2	2.9	2.2	2.2
55°	1.4	1.4	1.4	1.4	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	0.7	0.7	0.7
67.5°	0.7	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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