

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: P886481

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2SDMW-400LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-95)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2SDMW-400LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

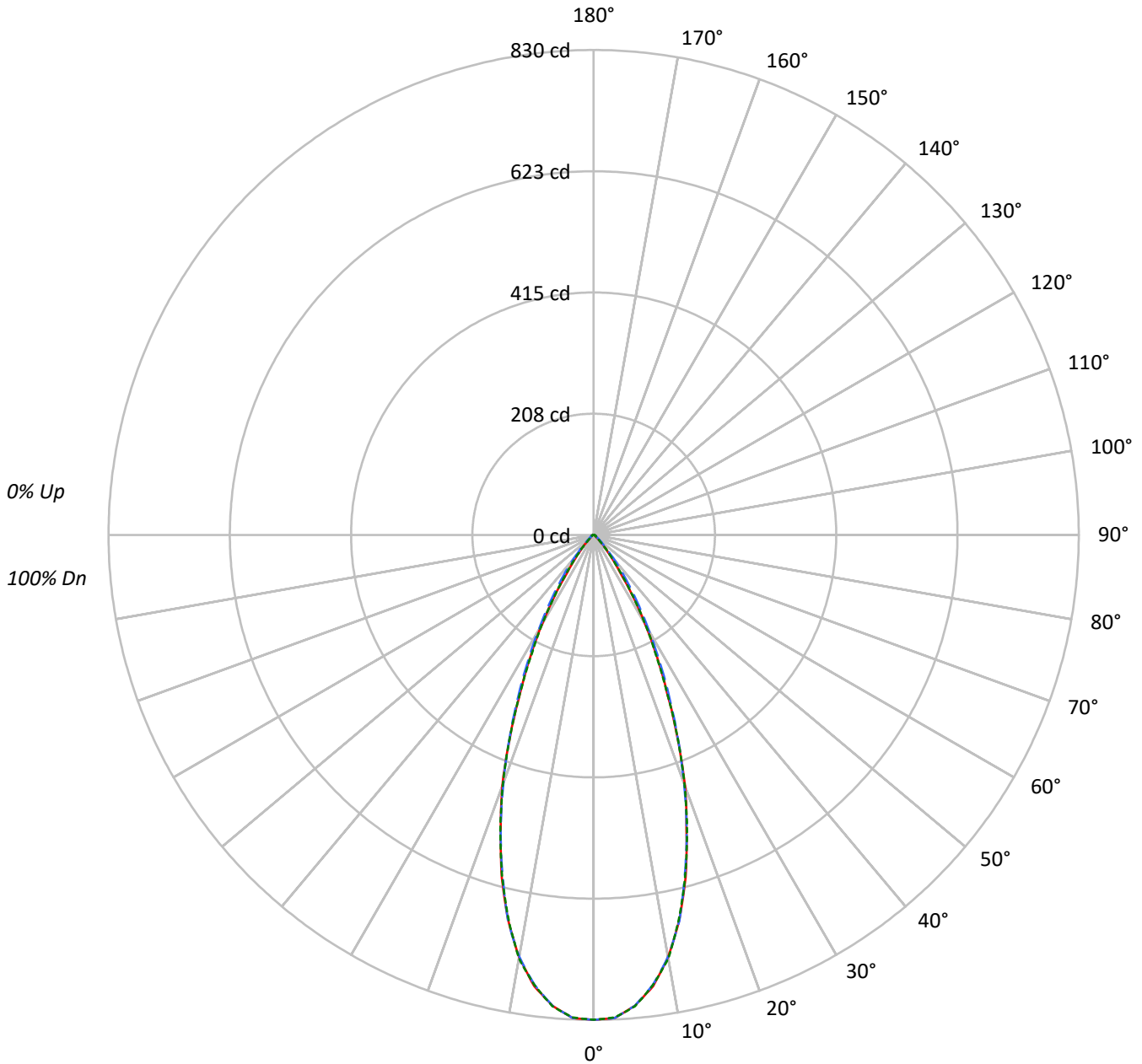
Lumens per Lamp: N/A
Luminaire Lumens: 470.1 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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					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	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	107	102	99	96	99	96	94	96	94	92	94	92	90	88								
3	104	98	93	90	102	96	92	89	94	90	87	91	89	86	89	87	85	83								
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78								
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74								
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70								
7	87	78	73	69	86	78	73	69	76	72	68	75	71	68	74	71	68	66								
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63								
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60								
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	80387	80387	80387
5°	78662	78662	78740
10°	72194	72115	72420
15°	60888	60416	60657
20°	47113	46557	46804
25°	31661	32655	31661
30°	19811	21108	19721
35°	9508	12619	10147
40°	4793	6652	4793
45°	1904	3288	2124
50°	1055	1748	1160
55°	777	1047	912
60°	756	891	756
65°	711	894	711
70°	651	878	651
75°	861	861	861
80°	837	837	837
85°	889	889	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3288 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	15.9
10°-20°	166.1	35.3
20°-30°	138.6	29.5
30°-40°	62.4	13.3
40°-50°	16.4	3.5
50°-60°	5.3	1.1
60°-70°	3.6	0.8
70°-80°	2.2	0.5
80°-90°	0.7	0.2
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°	379.5	80.7
0°-40°	441.9	94.0
0°-60°	463.6	98.6
0°-90°	470.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	809	810	809	809	810	75
15°	607	605	602	603	605	166
25°	296	302	306	302	296	137
35°	80	94	107	95	86	56
45°	14	19	24	19	16	13
55°	5	5	6	5	5	5
65°	3	4	4	4	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	829.8	829.8	829.8	829.8	829.8
2.5°	827.5	827.5	827.5	828.3	826.7
5°	808.9	809.7	808.9	808.9	809.7
7.5°	778.8	778.8	776.4	777.2	777.2
10°	733.9	732.4	733.1	732.4	736.2
12.5°	675.9	676.7	676.7	678.2	673.6
15°	607.1	604.8	602.4	603.2	604.8
17.5°	528.2	528.2	529.0	527.4	531.3
20°	457.0	454.0	451.6	448.5	454.0
22.5°	373.5	375.1	375.8	373.5	374.3
25°	296.2	301.6	305.5	302.4	296.2
27.5°	233.6	233.6	243.6	236.6	229.7
30°	177.1	181.7	188.7	181.7	176.3
32.5°	126.1	135.3	144.6	136.1	126.8
35°	80.4	93.6	106.7	95.1	85.8
37.5°	54.9	62.6	77.3	63.4	57.2
40°	37.9	41.8	52.6	42.5	37.9
42.5°	24.7	28.6	35.6	28.6	24.7
45°	13.9	18.6	24.0	18.6	15.5
47.5°	8.5	10.8	17.0	11.6	10.1
50°	7.0	8.5	11.6	7.7	7.7
52.5°	6.2	7.0	7.7	7.0	6.2
55°	4.6	5.4	6.2	5.4	5.4
57.5°	4.6	4.6	5.4	4.6	4.6
60°	3.9	4.6	4.6	4.6	3.9
62.5°	3.9	3.9	3.9	3.9	3.9
65°	3.1	3.9	3.9	3.9	3.1
67.5°	3.1	3.1	3.1	3.1	3.1
70°	2.3	3.1	3.1	3.1	2.3
72.5°	2.3	2.3	2.3	2.3	2.3
75°	2.3	2.3	2.3	2.3	2.3
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.8	0.0	0.8	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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