

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: P886500

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMB-400LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-103)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMB-400LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 402.6 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

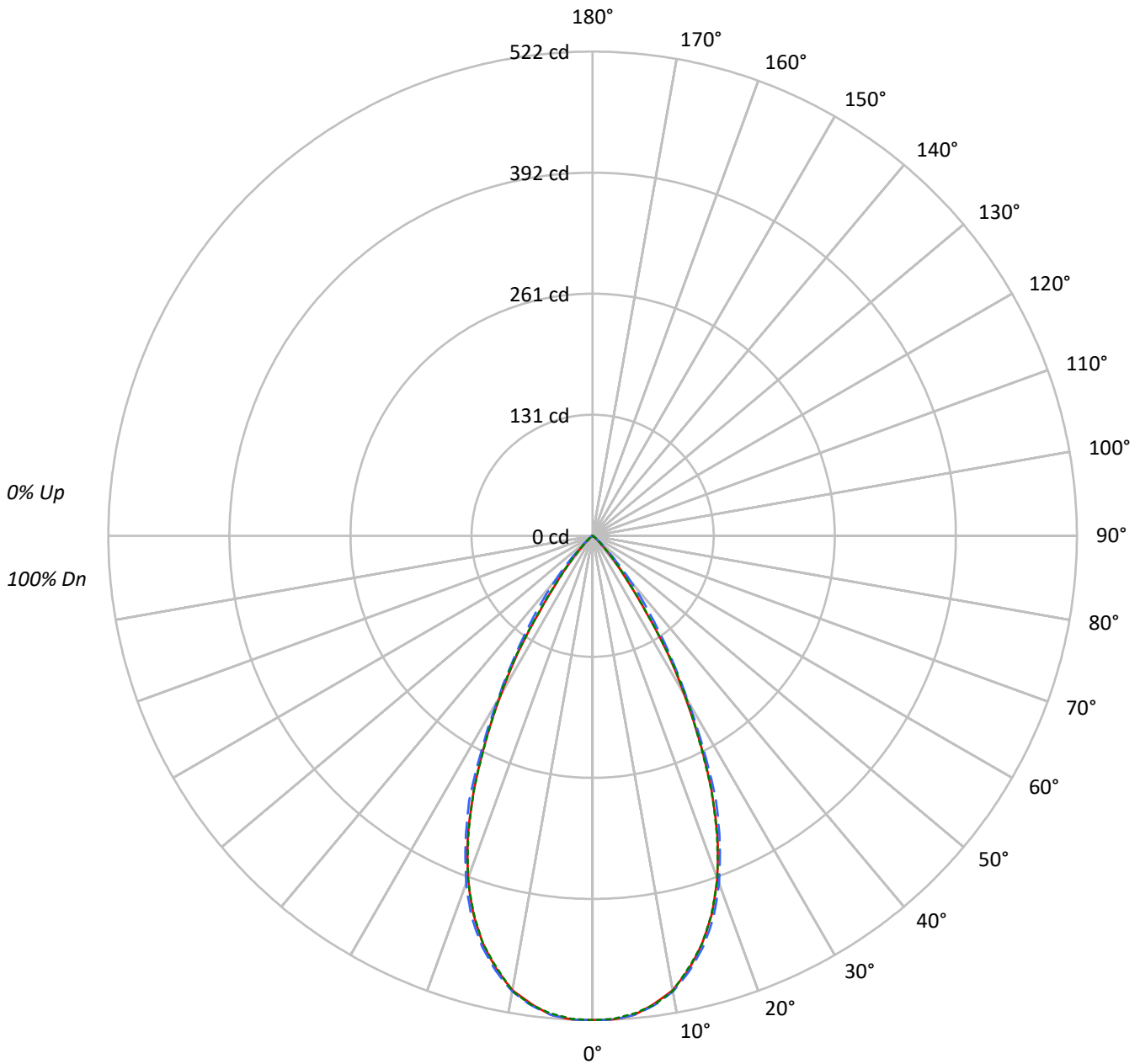
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	102	102	102	102	100			
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	96	96	96	96	94			
	2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	93	92	90	90	88			
	3	104	97	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	89	86	84	84	83			
	4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	85	82	79	79	78			
	5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	80	77	74	74	73			
	6	90	81	76	72	88	80	75	71	79	74	71	78	73	70	76	73	70	76	73	70	70	68			
	7	85	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	73	69	66	66	64			
	8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	69	65	62	62	61			
	9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	66	62	59	59	57			
	10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	63	59	56	56	54			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	202275	202275	202275
5°	201647	201647	201102
10°	195755	196306	196030
15°	182773	184217	182773
20°	161978	164370	161978
25°	129678	134595	129336
30°	88505	91771	89802
35°	47116	57712	48156
40°	20841	31413	21195
45°	7891	11453	7891
50°	2170	3918	2592
55°	473	1486	473
60°	0	0	0
65°	0	0	0
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: 11453 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	12.1
10°-20°	127.1	31.6
20°-30°	137.9	34.3
30°-40°	71.6	17.8
40°-50°	15.7	3.9
50°-60°	1.5	0.4
60°-70°	0.0	0.0
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°	313.8	78.0
0°-40°	385.5	95.7
0°-60°	402.6	100.0
0°-90°	402.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	402.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	518	518	518	518	517	49
15°	456	457	459	456	456	127
25°	303	305	315	305	302	136
35°	100	112	122	114	102	66
45°	14	16	21	16	14	13
55°	1	1	2	1	1	1
65°	0	0	0	0	0	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°	522.0	522.0	522.0	522.0	522.0
2.5°	522.0	521.3	522.0	522.0	521.3
5°	518.4	517.7	518.4	517.7	517.0
7.5°	509.0	509.8	510.5	509.8	509.8
10°	497.5	498.2	498.9	498.2	498.2
12.5°	478.7	480.2	480.9	480.2	477.3
15°	455.6	457.1	459.2	456.3	455.6
17.5°	427.5	431.1	432.5	429.6	426.7
20°	392.8	396.4	398.6	396.4	392.8
22.5°	351.6	356.7	358.1	356.0	350.2
25°	303.3	305.4	314.8	304.7	302.5
27.5°	249.8	253.4	257.8	254.2	248.4
30°	197.8	201.5	205.1	202.9	200.7
32.5°	150.9	159.6	160.3	157.4	153.8
35°	99.6	111.9	122.0	114.1	101.8
37.5°	62.8	70.8	88.8	71.5	63.5
40°	41.2	44.8	62.1	45.5	41.9
42.5°	26.0	28.9	38.3	28.2	26.0
45°	14.4	15.9	20.9	15.9	14.4
47.5°	7.2	8.7	12.3	8.7	7.9
50°	3.6	5.1	6.5	5.1	4.3
52.5°	1.4	2.9	3.6	2.9	2.2
55°	0.7	1.4	2.2	0.7	0.7
57.5°	0.0	0.0	0.7	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
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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