

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: P886454

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMBB-400LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-94)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMBB-400LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

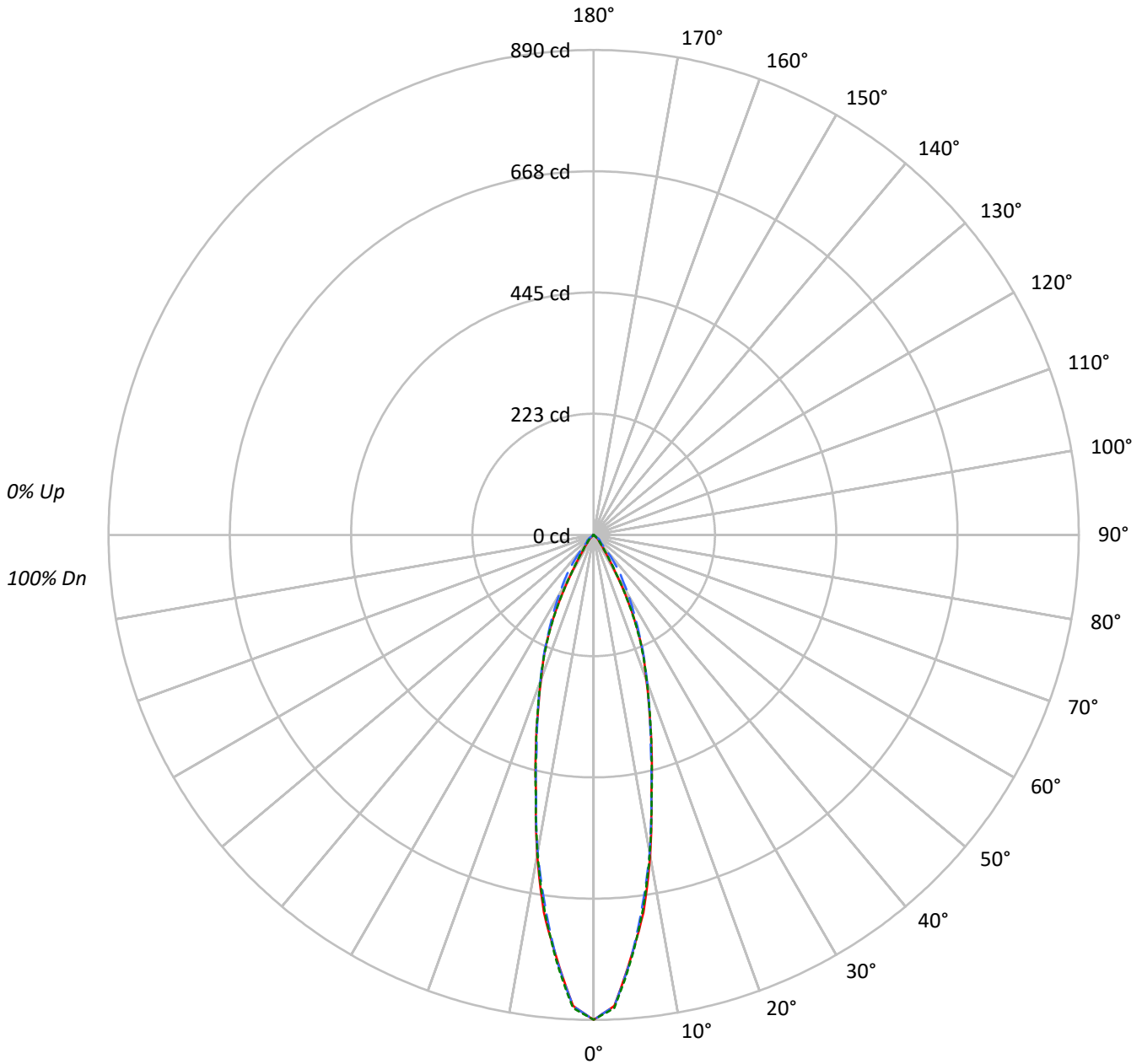
Lumens per Lamp: N/A
Luminaire Lumens: 315.7 lumens
Efficiency: N/A
Efficacy: 50.9 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86					86			
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82					82			
5	97	90	85	81	95	89	84	81	87	83	80	86	82	80	84	81	79	78					78			
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74					74			
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71					71			
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68					68			
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65					65			
10	80	72	67	64	79	72	67	64	71	67	64	70	66	63	69	66	63	62					62			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	344758	344758	344758
5°	303054	303910	305038
10°	234630	232624	233489
15°	164399	162072	163837
20°	115958	117731	117113
25°	80338	82818	78799
30°	37183	56289	37496
35°	15374	37607	16084
40°	8751	15378	9156
45°	5535	9481	5918
50°	422	7837	422
55°	473	1959	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: 9481 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	21.8
10°-20°	114.5	36.3
20°-30°	87.0	27.6
30°-40°	33.9	10.7
40°-50°	10.1	3.2
50°-60°	1.4	0.5
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°	270.3	85.6
0°-40°	304.2	96.4
0°-60°	315.7	100.0
0°-90°	315.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	315.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	779	784	781	780	784	69
15°	410	407	404	410	408	114
25°	188	195	194	194	184	83
35°	32	43	80	45	34	24
45°	10	13	17	13	11	7
55°	1	1	3	1	1	0
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	889.7	889.7	889.7	889.7	889.7
2.5°	865.2	865.9	865.2	868.8	868.8
5°	779.1	783.5	781.3	779.9	784.2
7.5°	698.9	689.5	685.2	688.1	693.1
10°	596.3	593.4	591.2	594.1	593.4
12.5°	488.6	490.8	488.6	492.2	490.0
15°	409.8	406.9	404.0	409.8	408.4
17.5°	339.7	342.6	339.7	341.1	341.1
20°	281.2	286.2	285.5	286.2	284.0
22.5°	237.8	237.1	238.5	237.8	235.6
25°	187.9	195.1	193.7	193.7	184.3
27.5°	134.4	149.6	157.6	151.8	133.0
30°	83.1	108.4	125.8	104.8	83.8
32.5°	52.8	69.4	100.5	67.9	53.5
35°	32.5	43.4	79.5	44.8	34.0
37.5°	23.1	31.1	54.9	31.1	23.1
40°	17.3	21.7	30.4	21.7	18.1
42.5°	13.7	16.6	20.2	16.6	14.5
45°	10.1	13.0	17.3	13.0	10.8
47.5°	2.9	8.7	15.2	8.7	4.3
50°	0.7	1.4	13.0	2.9	0.7
52.5°	0.7	0.7	9.4	0.7	0.7
55°	0.7	0.7	2.9	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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