

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: P886482

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2SDMWB-400LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-98)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2SDMWB-400LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

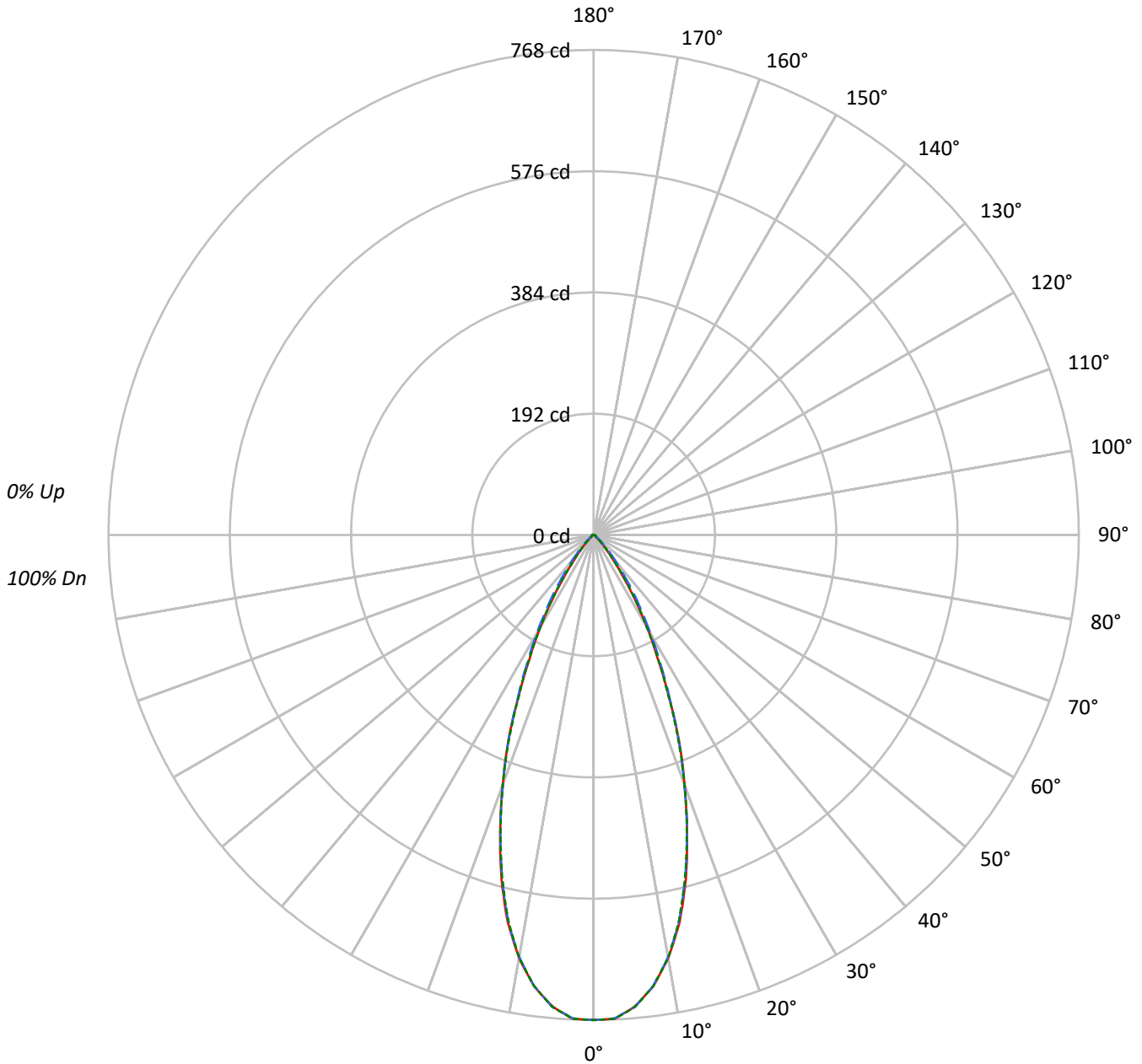
Lumens per Lamp: N/A
Luminaire Lumens: 441.3 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.69
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	106	102	99	96	99	96	94	96	94	92	93	92	90	88								
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83								
4	99	92	87	83	97	91	86	83	89	85	82	87	83	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	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70								
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66								
8	83	74	69	65	82	74	69	65	73	68	65	72	68	64	71	67	64	63								
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60								
10	76	68	62	59	75	67	62	59	66	62	59	66	61	58	65	61	58	57								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	74429	74429	74429
5°	72885	72954	72954
10°	66911	66764	66842
15°	56555	56194	56124
20°	43320	43247	43402
25°	29865	30335	29790
30°	18983	20035	18737
35°	9816	12217	10159
40°	4565	6753	4742
45°	2082	3261	2178
50°	980	1748	1085
55°	726	980	726
60°	698	698	698
65°	665	665	665
70°	623	821	623
75°	823	823	823
80°	781	781	781
85°	778	778	778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3261 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	15.7
10°-20°	154.2	34.9
20°-30°	130.2	29.5
30°-40°	60.7	13.7
40°-50°	16.4	3.7
50°-60°	4.7	1.1
60°-70°	3.1	0.7
70°-80°	2.1	0.5
80°-90°	0.6	0.1
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°	353.7	80.2
0°-40°	414.4	93.9
0°-60°	435.5	98.7
0°-90°	441.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	441.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	750	751	750	750	750	69
15°	564	562	560	560	560	154
25°	279	284	284	284	279	129
35°	83	93	103	95	86	55
45°	15	19	24	19	16	13
55°	4	5	6	5	4	4
65°	3	3	3	3	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°	768.3	768.3	768.3	768.3	768.3
2.5°	766.8	766.1	766.1	766.1	766.8
5°	749.5	750.9	750.2	750.2	750.2
7.5°	721.3	720.6	720.6	720.6	720.6
10°	680.2	679.5	678.7	681.6	679.5
12.5°	628.2	628.2	626.0	626.8	624.6
15°	563.9	562.5	560.3	559.6	559.6
17.5°	491.7	491.7	491.7	488.8	490.3
20°	420.2	422.4	419.5	422.4	421.0
22.5°	353.8	351.6	351.6	350.2	349.5
25°	279.4	284.5	283.8	284.5	278.7
27.5°	218.1	222.4	227.5	224.6	220.2
30°	169.7	171.9	179.1	173.3	167.5
32.5°	122.8	130.7	137.9	132.1	125.6
35°	83.0	93.1	103.3	94.6	85.9
37.5°	54.2	62.1	73.7	63.5	55.6
40°	36.1	39.7	53.4	41.2	37.5
42.5°	24.6	28.2	36.8	28.2	26.0
45°	15.2	18.8	23.8	18.8	15.9
47.5°	7.9	11.6	17.3	11.6	9.4
50°	6.5	7.2	11.6	7.2	7.2
52.5°	5.1	5.8	7.2	5.8	5.8
55°	4.3	5.1	5.8	5.1	4.3
57.5°	3.6	4.3	4.3	4.3	3.6
60°	3.6	3.6	3.6	3.6	3.6
62.5°	3.6	3.6	3.6	3.6	3.6
65°	2.9	2.9	2.9	2.9	2.9
67.5°	2.9	2.9	2.9	2.9	2.9
70°	2.2	2.9	2.9	2.9	2.2
72.5°	2.2	2.2	2.2	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
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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