

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: P886483

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2SDMWB-400LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886483
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-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

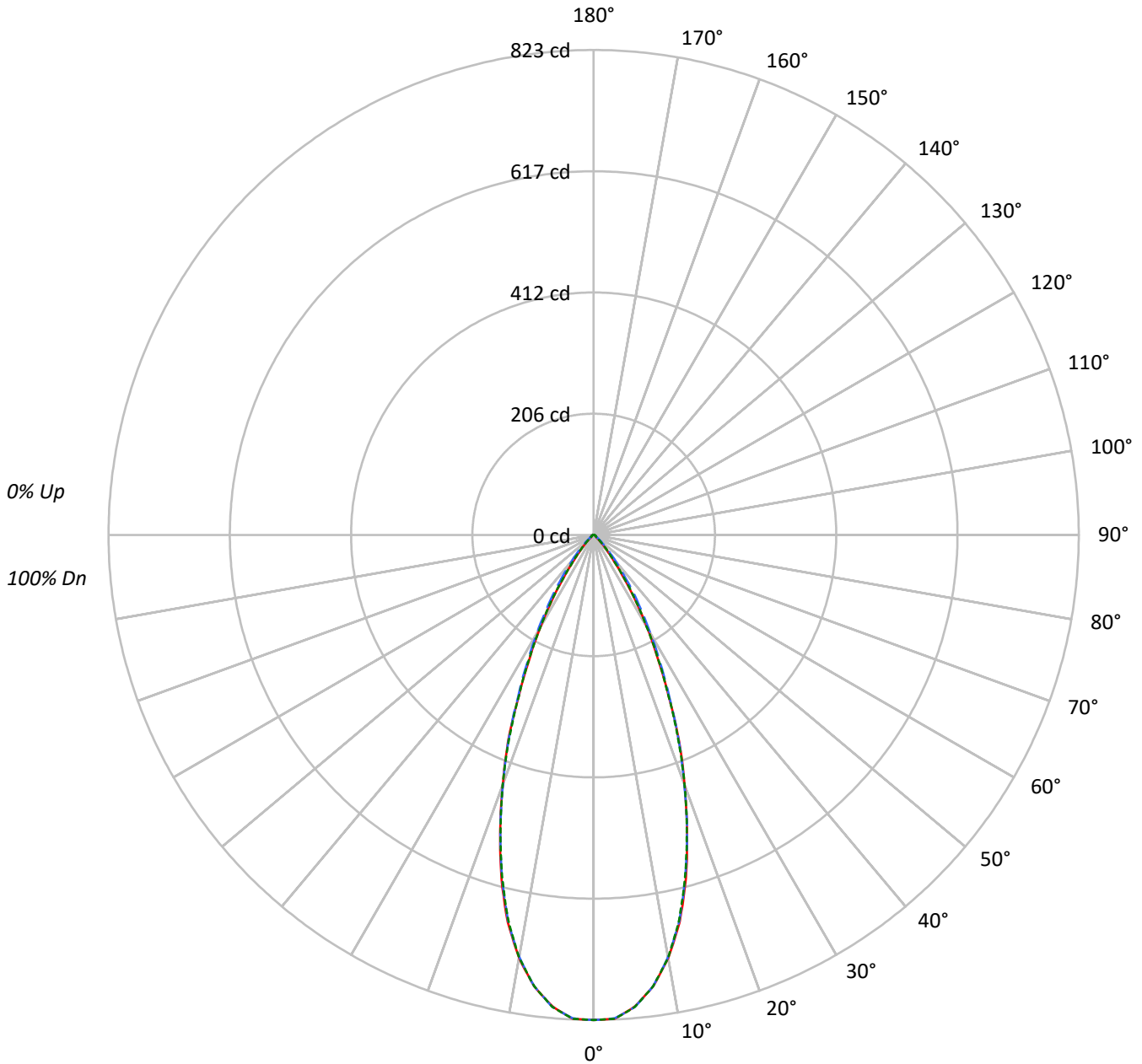
Lumens per Lamp: N/A
Luminaire Lumens: 472.9 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.69
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	79758	79758	79758
5°	78108	78185	78185
10°	71702	71554	71623
15°	60607	60226	60146
20°	46433	46350	46505
25°	32014	32505	31928
30°	20337	21466	20079
35°	10525	13092	10892
40°	4894	7246	5084
45°	2219	3494	2329
50°	1055	1869	1160
55°	777	1047	777
60°	756	756	756
65°	711	711	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: 3494 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	15.7
10°-20°	165.2	34.9
20°-30°	139.6	29.5
30°-40°	65.0	13.7
40°-50°	17.6	3.7
50°-60°	5.0	1.1
60°-70°	3.3	0.7
70°-80°	2.2	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°	379.1	80.2
0°-40°	444.1	93.9
0°-60°	466.7	98.7
0°-90°	472.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	472.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	803	805	804	804	804	74
15°	604	603	600	600	600	166
25°	300	305	304	305	299	138
35°	89	100	111	101	92	59
45°	16	20	26	20	17	14
55°	5	5	6	5	5	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°	823.3	823.3	823.3	823.3	823.3
2.5°	821.8	821.0	821.0	821.0	821.8
5°	803.2	804.8	804.0	804.0	804.0
7.5°	773.0	772.3	772.3	772.3	772.3
10°	728.9	728.1	727.4	730.5	728.1
12.5°	673.2	673.2	670.9	671.7	669.3
15°	604.3	602.8	600.5	599.7	599.7
17.5°	527.0	527.0	527.0	523.9	525.4
20°	450.4	452.7	449.6	452.7	451.1
22.5°	379.2	376.8	376.8	375.3	374.5
25°	299.5	304.9	304.1	304.9	298.7
27.5°	233.7	238.3	243.7	240.7	236.0
30°	181.8	184.2	191.9	185.7	179.5
32.5°	131.5	140.1	147.8	141.6	134.6
35°	89.0	99.8	110.7	101.4	92.1
37.5°	58.0	66.5	78.9	68.1	59.6
40°	38.7	42.6	57.3	44.1	40.2
42.5°	26.3	30.2	39.5	30.2	27.9
45°	16.2	20.1	25.5	20.1	17.0
47.5°	8.5	12.4	18.6	12.4	10.1
50°	7.0	7.7	12.4	7.7	7.7
52.5°	5.4	6.2	7.7	6.2	6.2
55°	4.6	5.4	6.2	5.4	4.6
57.5°	3.9	4.6	4.6	4.6	3.9
60°	3.9	3.9	3.9	3.9	3.9
62.5°	3.9	3.9	3.9	3.9	3.9
65°	3.1	3.1	3.1	3.1	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	0.0	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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