

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: P886504

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMW-400LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-101)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMW-400LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

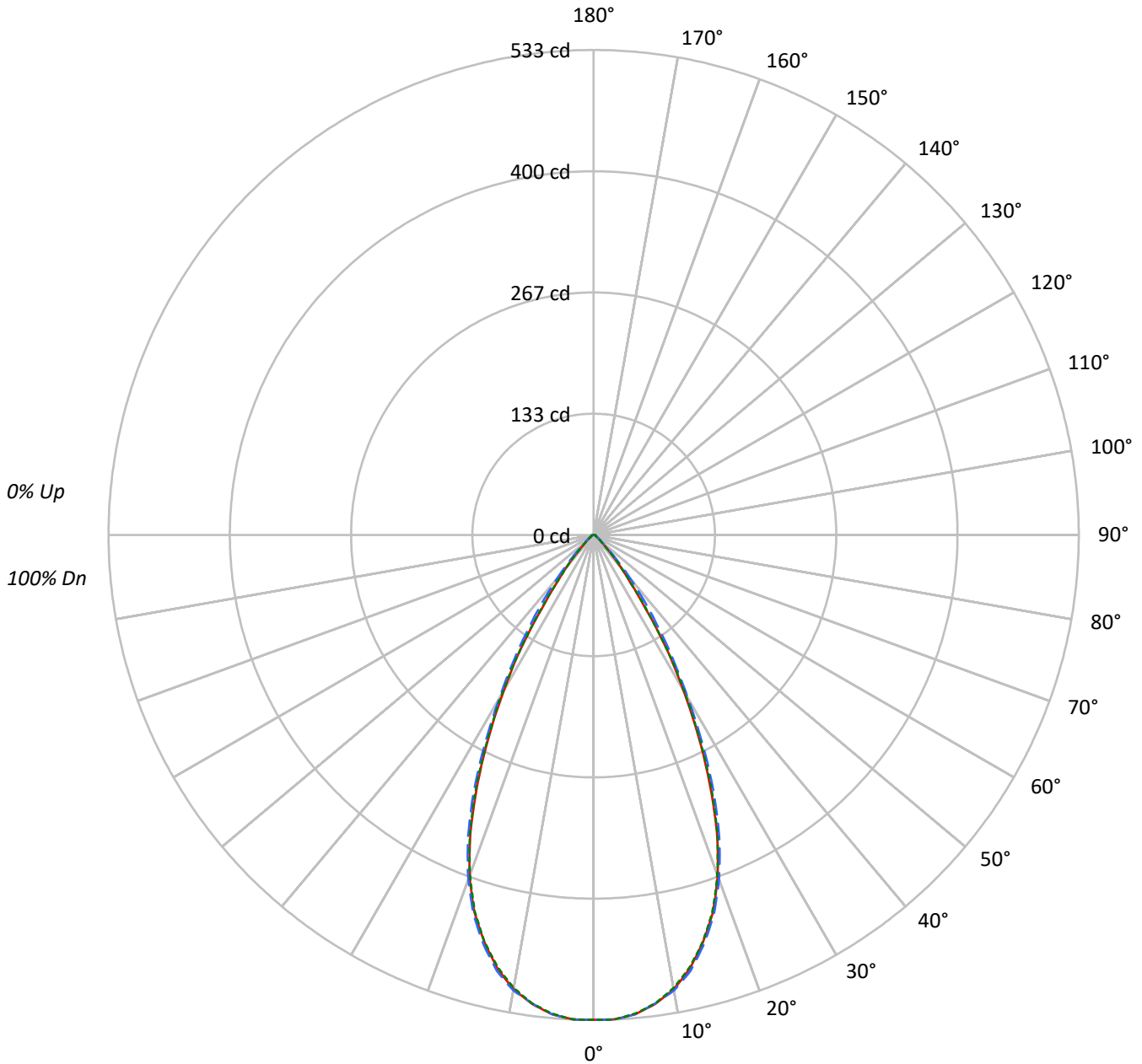
Lumens per Lamp: N/A
Luminaire Lumens: 419.3 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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									
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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76																			
5	93	85	79	75	92	84	79	75	82	78	74	81	77	73	79	76	73	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																			
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56																			
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	206498	206498	206498
5°	205615	205615	205342
10°	199454	200044	198903
15°	185982	187145	185701
20°	164370	166143	163793
25°	129037	133398	130277
30°	87878	92398	89489
35°	47825	58422	49197
40°	23370	31413	23370
45°	9919	13865	10303
50°	5245	6511	5245
55°	3445	3918	3445
60°	2790	2790	2790
65°	2659	2659	2659
70°	2493	2493	2493
75°	2096	3294	2096
80°	3124	3124	3124
85°	3112	3112	3112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13865 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	11.9
10°-20°	129.1	30.8
20°-30°	138.6	33.1
30°-40°	72.6	17.3
40°-50°	18.6	4.4
50°-60°	5.1	1.2
60°-70°	3.0	0.7
70°-80°	2.0	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°	317.5	75.7
0°-40°	390.1	93.0
0°-60°	413.8	98.7
0°-90°	419.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	419.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	529	529	529	528	528	50
15°	464	464	466	464	463	129
25°	302	308	312	307	305	136
35°	101	114	124	113	104	67
45°	18	20	25	20	19	17
55°	5	5	6	5	5	5
65°	3	3	3	3	3	3
75°	1	2	2	2	1	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°	532.9	532.9	532.9	532.9	532.9
2.5°	532.9	532.9	532.9	532.2	532.9
5°	528.6	528.6	528.6	527.9	527.9
7.5°	519.9	519.9	519.2	519.9	519.2
10°	506.9	506.9	508.4	506.9	505.5
12.5°	488.1	488.9	491.0	488.1	486.7
15°	463.6	464.3	466.5	463.6	462.9
17.5°	435.4	438.3	438.3	436.2	434.0
20°	398.6	400.0	402.9	400.0	397.2
22.5°	353.8	361.1	361.1	357.4	355.3
25°	301.8	307.6	312.0	306.9	304.7
27.5°	249.1	254.2	258.5	254.2	250.6
30°	196.4	201.5	206.5	203.6	200.0
32.5°	150.9	156.7	162.5	157.4	151.6
35°	101.1	114.1	123.5	113.4	104.0
37.5°	67.2	74.4	90.3	75.8	67.9
40°	46.2	48.4	62.1	48.4	46.2
42.5°	29.6	32.5	40.4	32.5	30.3
45°	18.1	20.2	25.3	20.2	18.8
47.5°	12.3	13.0	15.2	13.0	12.3
50°	8.7	8.7	10.8	9.4	8.7
52.5°	6.5	6.5	7.9	7.2	6.5
55°	5.1	5.1	5.8	5.1	5.1
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°	2.9	3.6	3.6	3.6	2.9
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	2.2	2.2	2.2	2.2
72.5°	2.2	2.2	2.2	2.2	2.2
75°	1.4	2.2	2.2	2.2	1.4
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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