

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: P886503

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMBB-400LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-106)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMBB-400LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

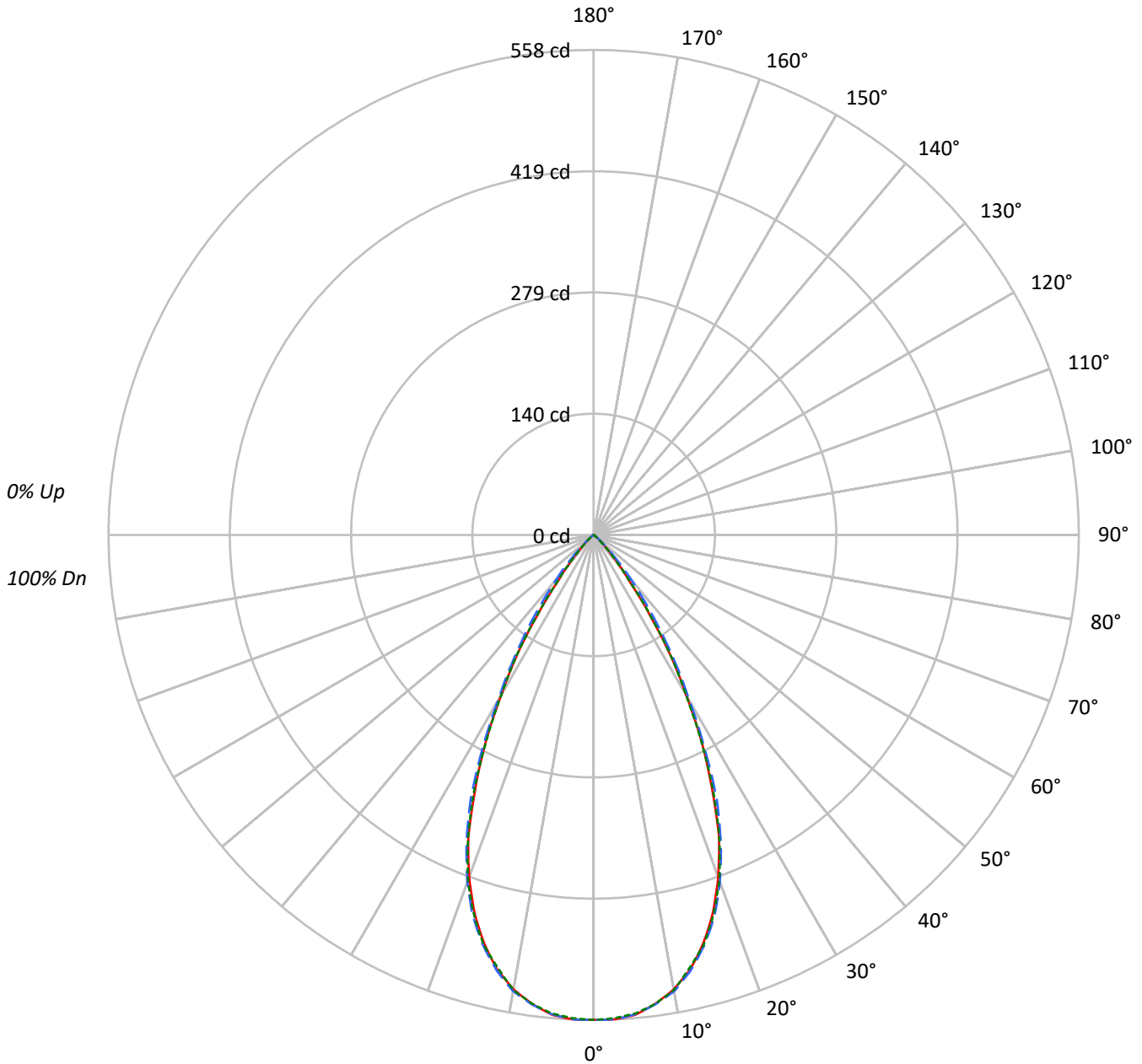
Lumens per Lamp: N/A
Luminaire Lumens: 433.5 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	216225	216225	216225
5°	215572	215261	214950
10°	208897	209841	209212
15°	195289	196533	195931
20°	172659	175215	174267
25°	137674	142975	139298
30°	95216	98707	94903
35°	53455	62963	54543
40°	23117	34043	23117
45°	8933	13591	8933
50°	3255	4642	2773
55°	540	1554	1013
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: 13591 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	12.0
10°-20°	135.7	31.3
20°-30°	147.9	34.1
30°-40°	78.3	18.1
40°-50°	17.7	4.1
50°-60°	1.8	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°	335.7	77.4
0°-40°	414.0	95.5
0°-60°	433.5	100.0
0°-90°	433.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	433.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	554	553	553	553	553	52
15°	487	487	490	488	488	135
25°	322	331	334	331	326	146
35°	113	125	133	124	115	73
45°	16	19	25	19	16	15
55°	1	2	2	2	2	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°	558.0	558.0	558.0	558.0	558.0
2.5°	558.0	557.3	558.0	557.3	556.5
5°	554.2	552.6	553.4	552.6	552.6
7.5°	544.1	544.1	544.9	544.9	544.1
10°	530.9	532.5	533.3	532.5	531.7
12.5°	512.4	510.8	513.9	512.4	510.0
15°	486.8	486.8	489.9	487.6	488.4
17.5°	455.9	459.7	461.3	458.2	458.2
20°	418.7	422.6	424.9	424.9	422.6
22.5°	376.9	383.1	382.3	382.3	377.7
25°	322.0	331.3	334.4	331.3	325.8
27.5°	269.3	268.6	276.3	272.4	267.8
30°	212.8	216.7	220.6	217.5	212.1
32.5°	164.9	171.0	174.9	169.5	166.4
35°	113.0	124.6	133.1	123.8	115.3
37.5°	69.7	80.5	96.0	82.0	72.0
40°	45.7	50.3	67.3	51.1	45.7
42.5°	28.6	31.7	43.3	31.7	28.6
45°	16.3	18.6	24.8	18.6	16.3
47.5°	9.3	10.1	13.2	10.1	8.5
50°	5.4	6.2	7.7	5.4	4.6
52.5°	2.3	3.1	3.9	3.1	2.3
55°	0.8	1.5	2.3	1.5	1.5
57.5°	0.0	0.8	0.8	0.8	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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