

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: P886452

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMB-400LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMB-400LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 312.7 lumens
Efficiency: N/A
Efficacy: 50.4 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

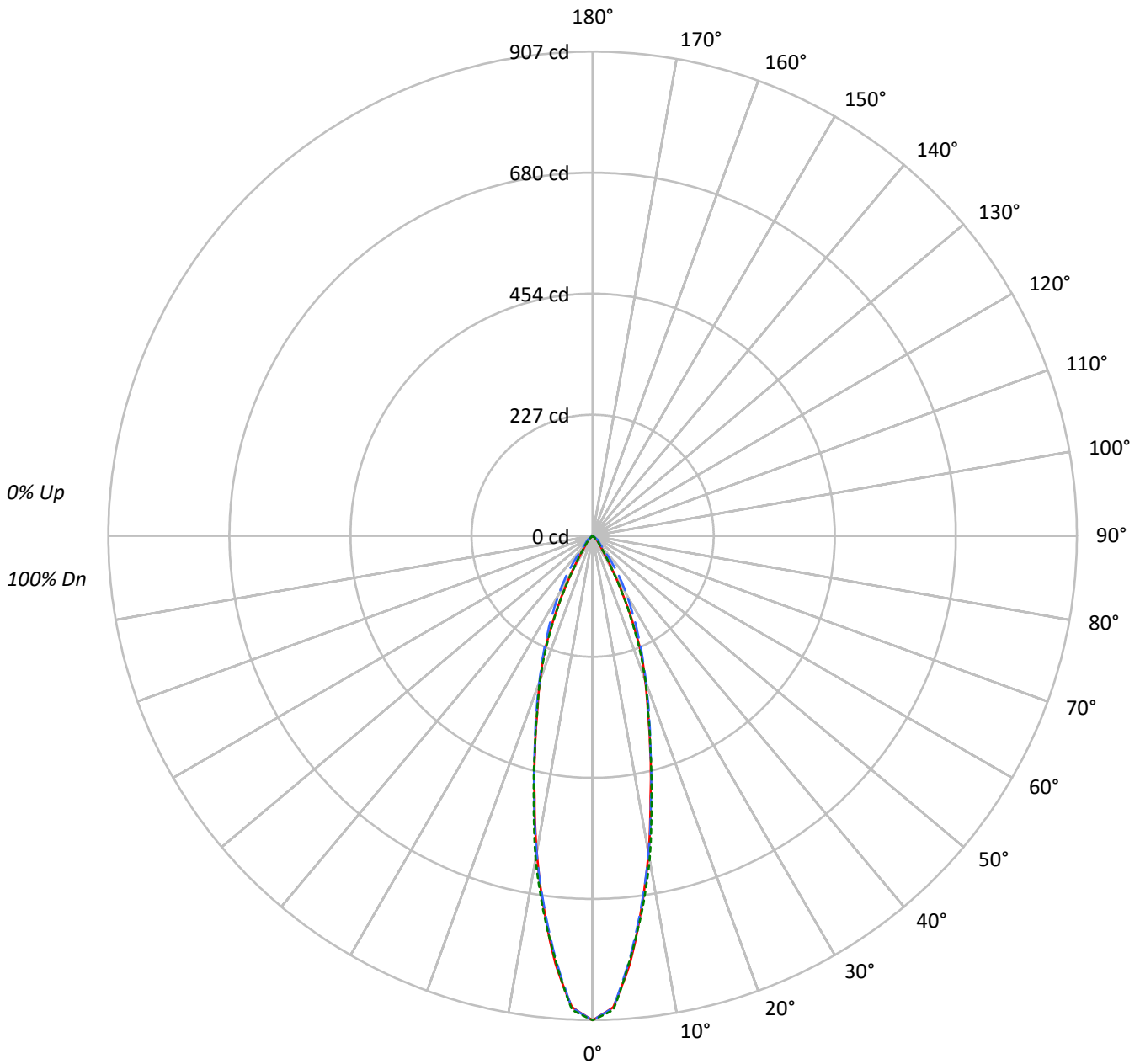
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	351617	351617	351617
5°	312778	309394	310522
10°	237070	237621	241910
15°	167207	168090	167809
20°	118556	120040	118845
25°	74139	84614	71958
30°	32977	57228	32306
35°	14002	33161	14712
40°	8397	13152	8397
45°	4768	9097	3946
50°	422	6993	422
55°	0	1486	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: 9097 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	22.4
10°-20°	117.0	37.4
20°-30°	84.9	27.2
30°-40°	30.6	9.8
40°-50°	8.9	2.9
50°-60°	1.1	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°	272.1	87.0
0°-40°	302.7	96.8
0°-60°	312.7	100.0
0°-90°	312.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	312.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	804	797	795	802	798	70
15°	417	417	419	414	418	116
25°	173	191	198	186	168	79
35°	30	40	70	40	31	22
45°	9	12	17	12	7	6
55°	0	1	2	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.4	907.4	907.4	907.4	907.4
2.5°	884.2	882.1	885.0	885.7	889.3
5°	804.1	796.8	795.4	801.9	798.3
7.5°	702.2	702.9	699.3	707.2	708.0
10°	602.5	603.2	603.9	606.8	614.8
12.5°	501.4	503.5	504.2	502.8	509.3
15°	416.8	416.8	419.0	413.9	418.3
17.5°	343.9	346.8	350.4	346.0	345.3
20°	287.5	289.7	291.1	290.4	288.2
22.5°	236.2	240.6	242.0	236.2	228.3
25°	173.4	191.4	197.9	185.7	168.3
27.5°	117.8	142.3	158.9	137.3	116.3
30°	73.7	94.6	127.9	94.6	72.2
32.5°	44.8	59.2	98.2	61.4	47.0
35°	29.6	40.5	70.1	40.5	31.1
37.5°	21.7	28.2	41.2	28.2	22.4
40°	16.6	19.5	26.0	20.2	16.6
42.5°	13.0	15.2	19.5	15.2	12.3
45°	8.7	11.6	16.6	11.6	7.2
47.5°	1.4	6.5	14.4	5.8	3.6
50°	0.7	0.7	11.6	2.2	0.7
52.5°	0.7	0.7	6.5	0.7	0.7
55°	0.0	0.7	2.2	0.7	0.7
57.5°	0.0	0.0	0.0	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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