

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: P886487

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2SDSLB-400LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2SDSLB-400LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 465.9 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

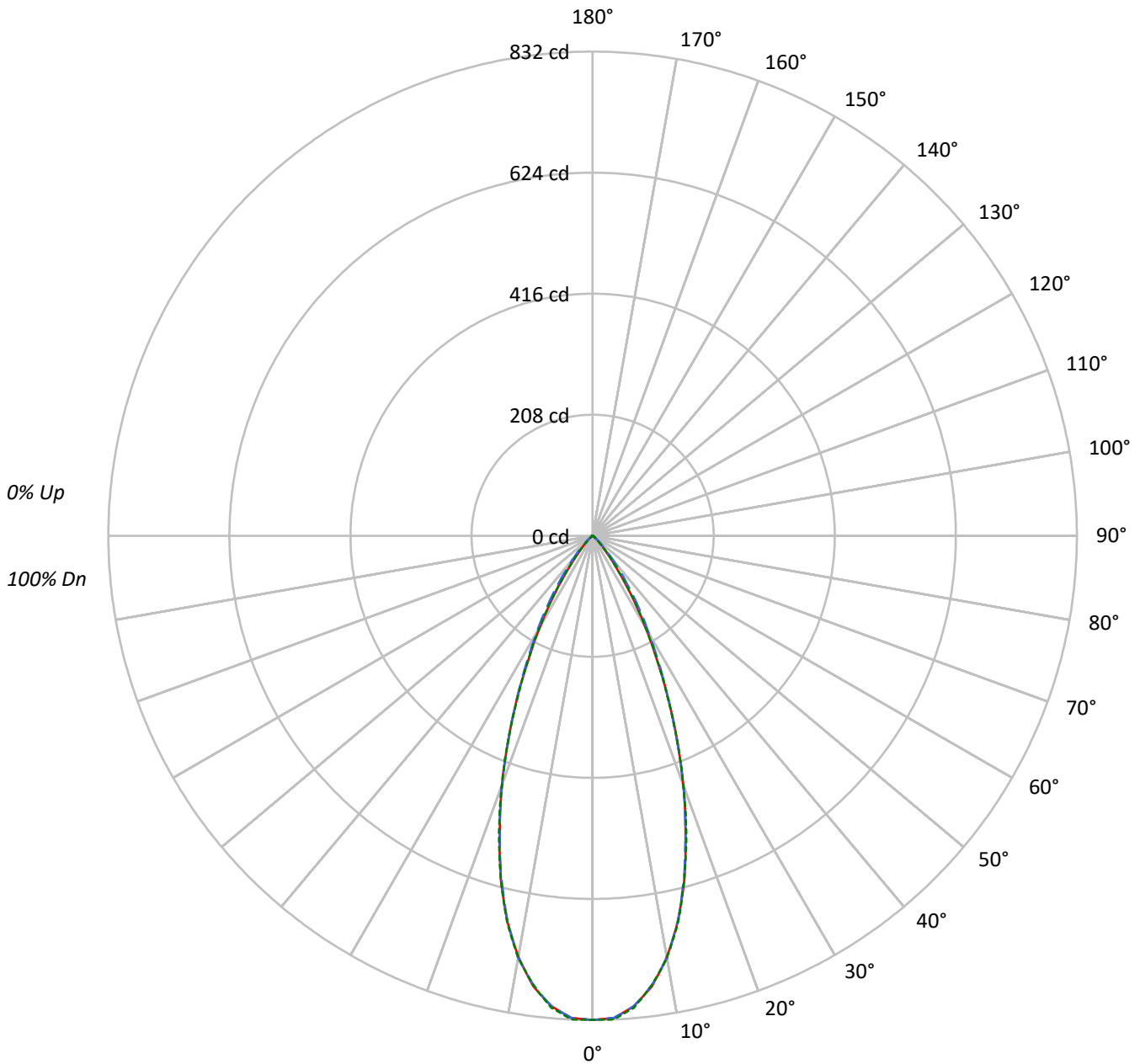
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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	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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89								
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84								
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80								
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75								
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	73	71								
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68								
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64								
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61								
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	322322	322322	322322
5°	315696	315696	316629
10°	289206	289835	289521
15°	244593	243349	244272
20°	187916	187916	187916
25°	130662	130662	129336
30°	81032	85865	81346
35°	41345	51610	42811
40°	18767	27771	19576
45°	7617	11892	7617
50°	2773	5606	2773
55°	1554	1554	1554
60°	620	620	620
65°	734	734	734
70°	906	0	906
75°	1198	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	16.1
10°-20°	167.0	35.8
20°-30°	140.5	30.2
30°-40°	64.6	13.9
40°-50°	15.5	3.3
50°-60°	2.3	0.5
60°-70°	0.8	0.2
70°-80°	0.2	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°	382.6	82.1
0°-40°	447.2	96.0
0°-60°	465.0	99.8
0°-90°	465.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	465.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	812	812	812	812	814	75
15°	610	611	607	607	609	167
25°	306	306	306	306	302	140
35°	87	100	109	101	90	59
45°	14	17	22	18	14	13
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	1	0	0	0	0	1
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°	831.8	831.8	831.8	831.8	831.8
2.5°	829.4	828.7	829.4	830.2	831.8
5°	811.6	812.4	811.6	812.4	814.0
7.5°	780.7	781.5	779.1	779.9	779.1
10°	735.0	736.6	736.6	736.6	735.8
12.5°	677.8	677.8	677.0	674.7	679.3
15°	609.7	611.2	606.6	606.6	608.9
17.5°	530.8	531.6	530.0	534.6	535.4
20°	455.7	456.5	455.7	455.0	455.7
22.5°	377.6	380.7	376.8	382.2	378.4
25°	305.6	306.4	305.6	306.4	302.5
27.5°	236.8	238.3	245.3	241.4	238.3
30°	181.1	184.9	191.9	184.9	181.8
32.5°	131.5	140.8	148.6	143.1	133.9
35°	87.4	99.8	109.1	100.6	90.5
37.5°	58.0	64.2	78.1	65.8	58.8
40°	37.1	41.8	54.9	42.6	38.7
42.5°	24.8	27.9	35.6	28.6	25.5
45°	13.9	17.0	21.7	17.8	13.9
47.5°	7.0	9.3	14.7	9.3	7.0
50°	4.6	4.6	9.3	4.6	4.6
52.5°	3.1	3.1	4.6	3.1	3.1
55°	2.3	2.3	2.3	2.3	2.3
57.5°	1.5	1.5	1.5	1.5	1.5
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.0	0.8	0.8
72.5°	0.8	0.0	0.0	0.0	0.8
75°	0.8	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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