

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: P886485

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2SDSL-400LM-4000K

Issue Date: 6/20/2024

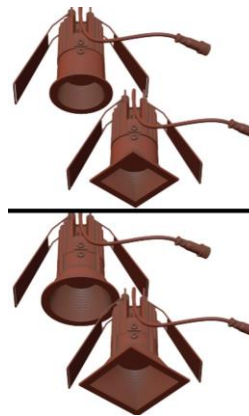
Test Information

Test Method: LM-79-2019
Report Number: P886485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-96)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2SDSL-400LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

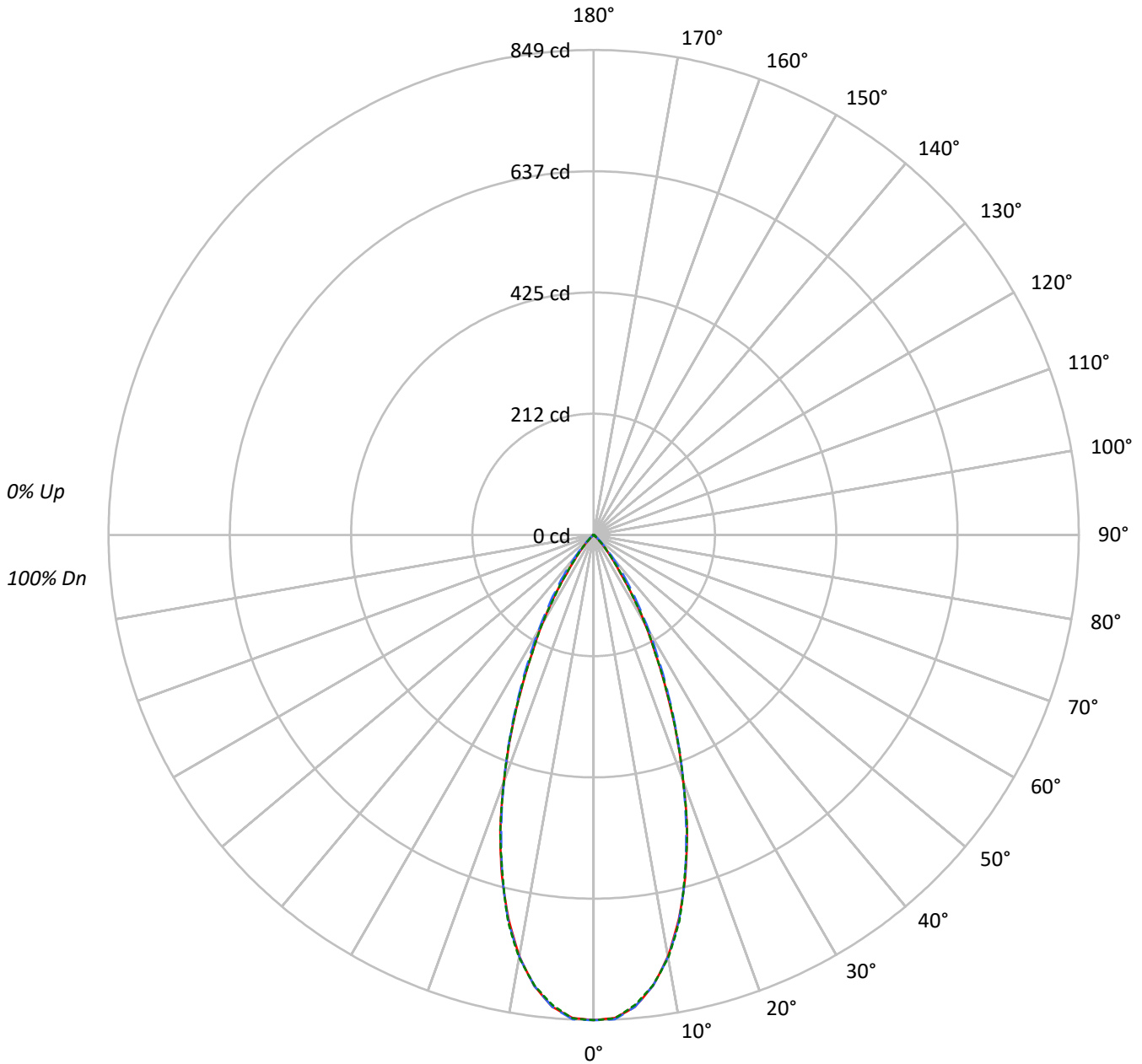
Lumens per Lamp: N/A
Luminaire Lumens: 465.4 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	82286	82286	82286
5°	80646	80646	80344
10°	73659	73738	73886
15°	62131	61971	61820
20°	47258	47340	47258
25°	32195	33104	32366
30°	20180	21478	20359
35°	9615	12642	9981
40°	4603	6462	4502
45°	1589	2754	1589
50°	588	1055	588
55°	253	253	253
60°	155	155	155
65°	183	183	183
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: 2754 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	16.4
10°-20°	169.5	36.4
20°-30°	140.8	30.3
30°-40°	62.3	13.4
40°-50°	13.9	3.0
50°-60°	1.7	0.4
60°-70°	0.6	0.1
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°	386.9	83.1
0°-40°	449.2	96.5
0°-60°	464.8	99.9
0°-90°	465.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	465.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	829	829	829	828	826	77
15°	620	616	618	616	616	170
25°	301	307	310	308	303	139
35°	81	94	107	94	84	57
45°	12	16	20	15	12	11
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
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°	849.4	849.4	849.4	849.4	849.4
2.5°	846.3	847.1	848.7	846.3	847.1
5°	829.3	829.3	829.3	828.5	826.2
7.5°	796.0	795.2	796.0	794.5	795.2
10°	748.8	751.1	749.6	749.6	751.1
12.5°	688.4	695.3	690.7	689.9	692.3
15°	619.5	615.6	617.9	615.6	616.4
17.5°	543.6	535.8	537.4	540.5	543.6
20°	458.4	460.0	459.2	460.0	458.4
22.5°	378.6	383.3	381.7	381.7	380.2
25°	301.2	307.4	309.7	308.2	302.8
27.5°	233.8	237.7	246.2	238.5	233.1
30°	180.4	184.3	192.0	183.5	182.0
32.5°	129.3	137.8	145.6	137.1	127.0
35°	81.3	94.5	106.9	94.5	84.4
37.5°	53.4	60.4	76.7	60.4	55.0
40°	36.4	40.3	51.1	39.5	35.6
42.5°	22.5	26.3	32.5	25.6	22.5
45°	11.6	15.5	20.1	14.7	11.6
47.5°	6.2	7.0	13.2	7.7	5.4
50°	3.9	3.9	7.0	3.9	3.9
52.5°	2.3	2.3	3.1	2.3	2.3
55°	1.5	1.5	1.5	1.5	1.5
57.5°	0.8	0.8	1.5	0.8	0.8
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	0.0	0.0	0.8
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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