

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: P886459

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMWB-400LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-92)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMWB-400LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

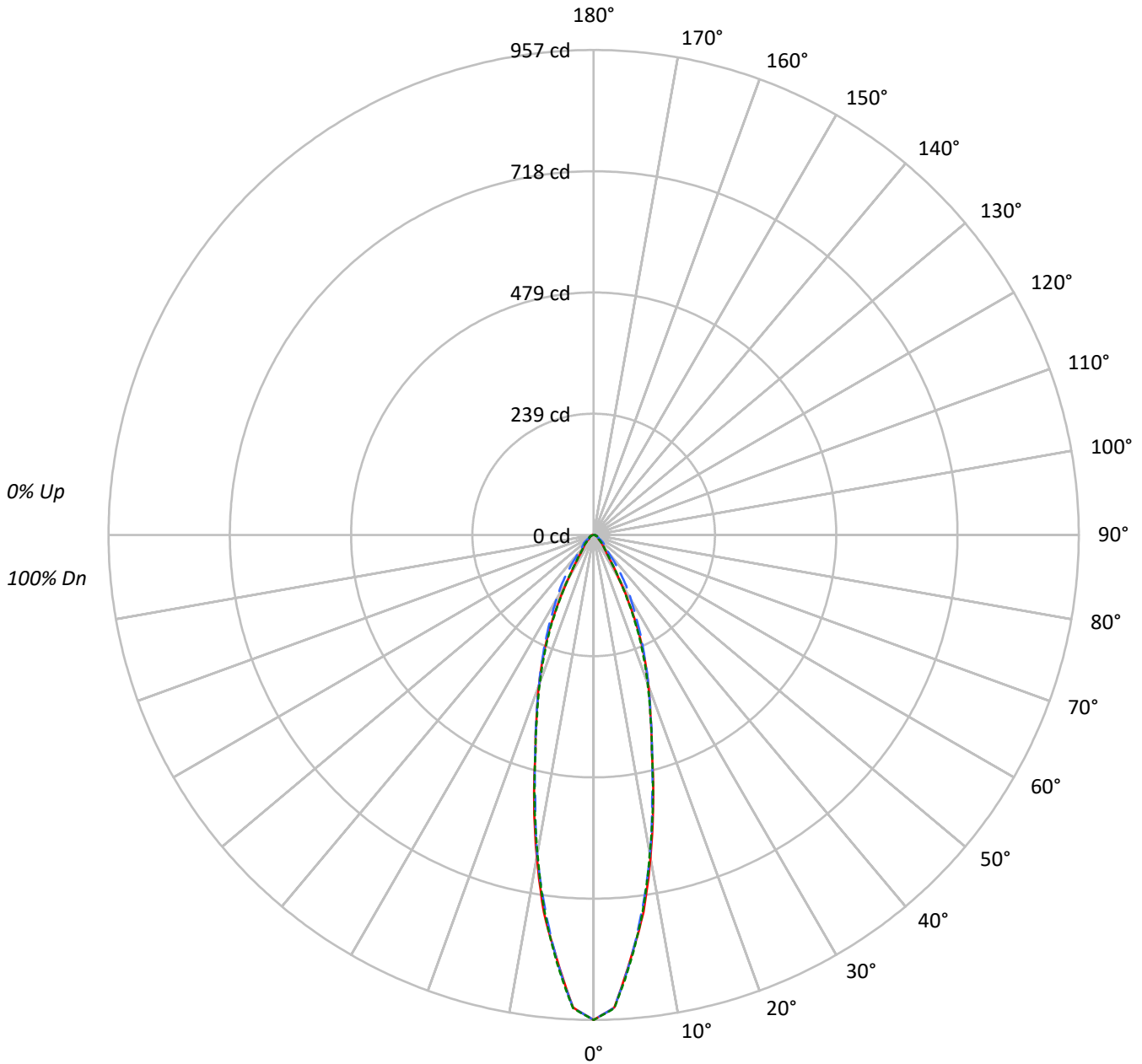
Lumens per Lamp: N/A
Luminaire Lumens: 383.1 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.46 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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									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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82																			
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72																			
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69																			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65																			
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62																			
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59																			
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	370914	370914	370914
5°	326004	326937	328143
10°	254029	252219	250999
15°	177718	178360	177718
20°	130102	130102	127875
25°	88590	93892	85640
30°	44297	65372	45684
35°	21571	42811	22659
40°	15277	23067	15631
45°	12275	16550	11453
50°	7475	14890	7475
55°	7296	9391	7296
60°	7207	7207	7207
65°	7060	7060	7060
70°	6118	7024	7024
75°	6887	6887	6887
80°	6918	5132	6918
85°	6669	3557	6669

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16550 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	19.3
10°-20°	125.0	32.6
20°-30°	96.5	25.2
30°-40°	42.9	11.2
40°-50°	19.8	5.2
50°-60°	10.9	2.8
60°-70°	7.7	2.0
70°-80°	4.8	1.2
80°-90°	1.5	0.4
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°	295.6	77.2
0°-40°	338.5	88.4
0°-60°	369.2	96.4
0°-90°	383.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	383.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	838	841	840	842	844	74
15°	443	445	445	445	443	126
25°	207	216	220	212	200	93
35°	46	59	90	60	48	33
45°	22	26	30	25	21	16
55°	11	11	14	11	11	10
65°	8	8	8	8	8	8
75°	5	5	5	5	5	5
85°	2	2	1	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.2	957.2	957.2	957.2	957.2
2.5°	933.3	932.5	933.3	934.8	934.8
5°	838.1	841.2	840.5	842.0	843.6
7.5°	751.5	744.6	740.0	741.5	746.1
10°	645.6	637.1	641.0	638.7	637.9
12.5°	542.8	534.3	532.7	535.1	539.7
15°	443.0	445.4	444.6	445.4	443.0
17.5°	373.5	372.7	373.5	373.5	371.1
20°	315.5	313.1	315.5	313.9	310.1
22.5°	261.3	264.4	262.9	263.7	254.4
25°	207.2	216.5	219.6	211.9	200.3
27.5°	150.0	167.0	177.8	163.1	145.4
30°	99.0	121.4	146.1	119.1	102.1
32.5°	67.3	83.5	119.1	85.1	68.8
35°	45.6	58.8	90.5	60.3	47.9
37.5°	36.3	44.1	64.9	44.8	37.1
40°	30.2	35.6	45.6	35.6	30.9
42.5°	26.3	29.4	34.8	29.4	27.1
45°	22.4	25.5	30.2	24.7	20.9
47.5°	16.2	20.1	27.1	19.3	17.0
50°	12.4	13.9	24.7	15.5	12.4
52.5°	11.6	11.6	20.1	11.6	11.6
55°	10.8	10.8	13.9	10.8	10.8
57.5°	10.1	10.1	10.8	10.8	10.1
60°	9.3	9.3	9.3	10.1	9.3
62.5°	8.5	8.5	8.5	8.5	8.5
65°	7.7	7.7	7.7	7.7	7.7
67.5°	7.0	7.0	7.0	7.0	7.0
70°	5.4	6.2	6.2	6.2	6.2
72.5°	4.6	5.4	5.4	5.4	4.6
75°	4.6	4.6	4.6	4.6	4.6
77.5°	3.9	3.9	3.9	3.9	3.1
80°	3.1	3.1	2.3	3.1	3.1
82.5°	1.5	2.3	1.5	2.3	1.5
85°	1.5	1.5	0.8	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8
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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