

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: P886505

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMW-400LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-101)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMW-400LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

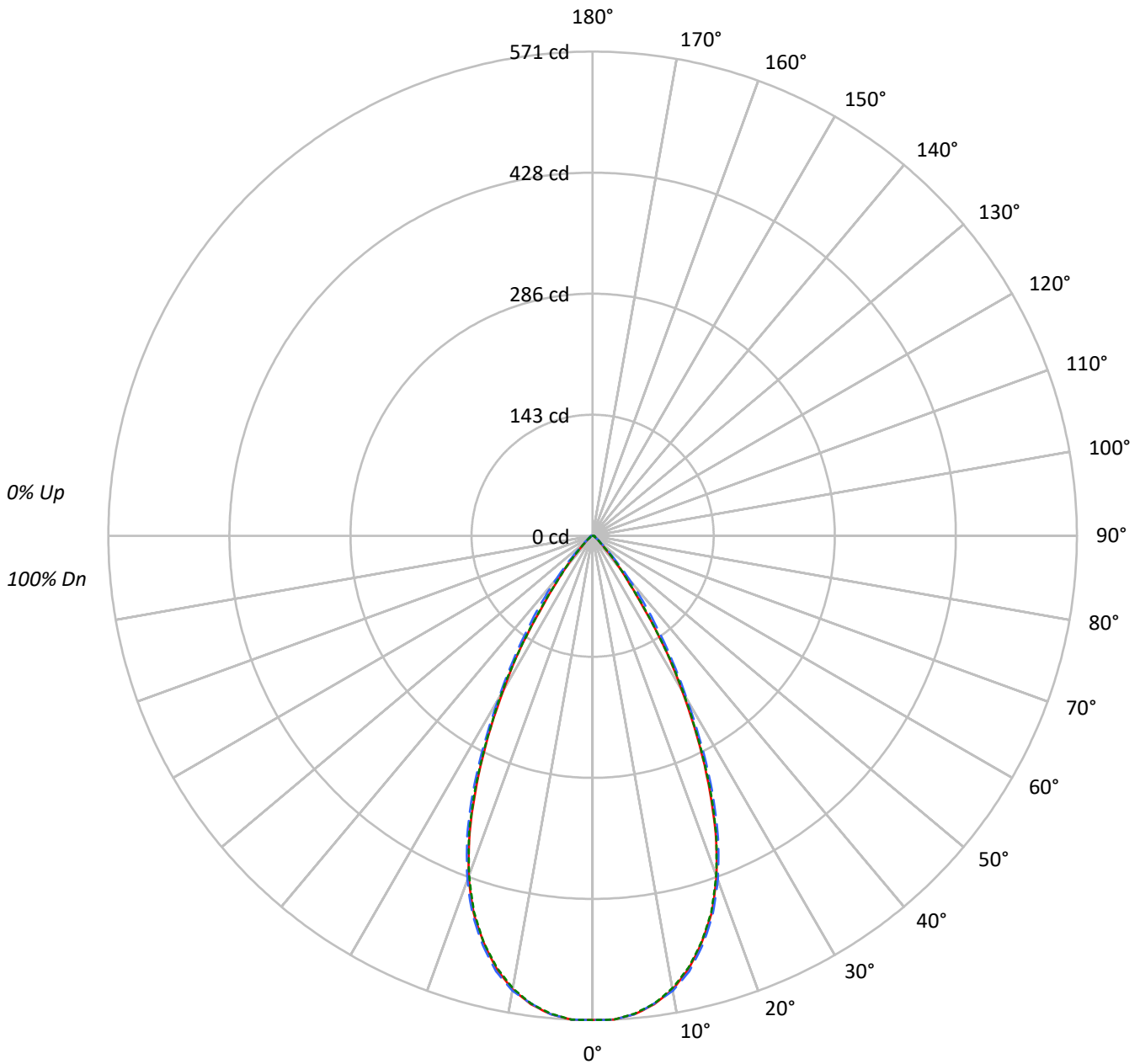
Lumens per Lamp: N/A
Luminaire Lumens: 449.4 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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									
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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76																			
5	93	85	79	75	92	84	79	75	82	78	74	81	77	73	79	76	73	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																			
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56																			
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	221301	221301	221301
5°	220357	220357	220046
10°	213737	214366	213147
15°	199301	200544	198980
20°	176164	178061	175504
25°	138315	142933	139641
30°	94187	99020	95932
35°	51231	62584	52698
40°	25039	33689	25039
45°	10577	14851	11015
50°	5606	6993	5606
55°	3648	4189	3648
60°	3022	3022	3022
65°	2842	2842	2842
70°	2606	2606	2606
75°	2246	3444	2246
80°	3347	3347	3347
85°	3557	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14851 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.3	11.9
10°-20°	138.4	30.8
20°-30°	148.5	33.1
30°-40°	77.8	17.3
40°-50°	20.0	4.4
50°-60°	5.5	1.2
60°-70°	3.2	0.7
70°-80°	2.1	0.5
80°-90°	0.6	0.1
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°	340.2	75.7
0°-40°	418.0	93.0
0°-60°	443.4	98.7
0°-90°	449.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	566	566	566	566	566	53
15°	497	498	500	497	496	138
25°	324	330	334	329	327	146
35°	108	122	132	122	111	72
45°	19	22	27	22	20	18
55°	5	5	6	5	5	5
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	571.1	571.1	571.1	571.1	571.1
2.5°	571.1	571.1	571.1	570.3	571.1
5°	566.5	566.5	566.5	565.7	565.7
7.5°	557.2	557.2	556.4	557.2	556.4
10°	543.2	543.2	544.8	543.2	541.7
12.5°	523.1	523.9	526.2	523.1	521.6
15°	496.8	497.6	499.9	496.8	496.0
17.5°	466.6	469.7	469.7	467.4	465.1
20°	427.2	428.7	431.8	428.7	425.6
22.5°	379.2	386.9	386.9	383.1	380.7
25°	323.5	329.7	334.3	328.9	326.6
27.5°	267.0	272.4	277.0	272.4	268.5
30°	210.5	215.9	221.3	218.2	214.4
32.5°	161.7	167.9	174.1	168.7	162.5
35°	108.3	122.3	132.3	121.5	111.4
37.5°	72.0	79.7	96.7	81.3	72.7
40°	49.5	51.8	66.6	51.8	49.5
42.5°	31.7	34.8	43.3	34.8	32.5
45°	19.3	21.7	27.1	21.7	20.1
47.5°	13.2	13.9	16.3	13.9	13.2
50°	9.3	9.3	11.6	10.1	9.3
52.5°	7.0	7.0	8.5	7.7	7.0
55°	5.4	5.4	6.2	5.4	5.4
57.5°	3.9	4.6	4.6	4.6	3.9
60°	3.9	3.9	3.9	3.9	3.9
62.5°	3.1	3.9	3.9	3.9	3.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	3.1	3.1	3.1	3.1	3.1
70°	2.3	2.3	2.3	2.3	2.3
72.5°	2.3	2.3	2.3	2.3	2.3
75°	1.5	2.3	2.3	2.3	1.5
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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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