

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: P886231

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMW-468LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886231
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: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMW-468LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

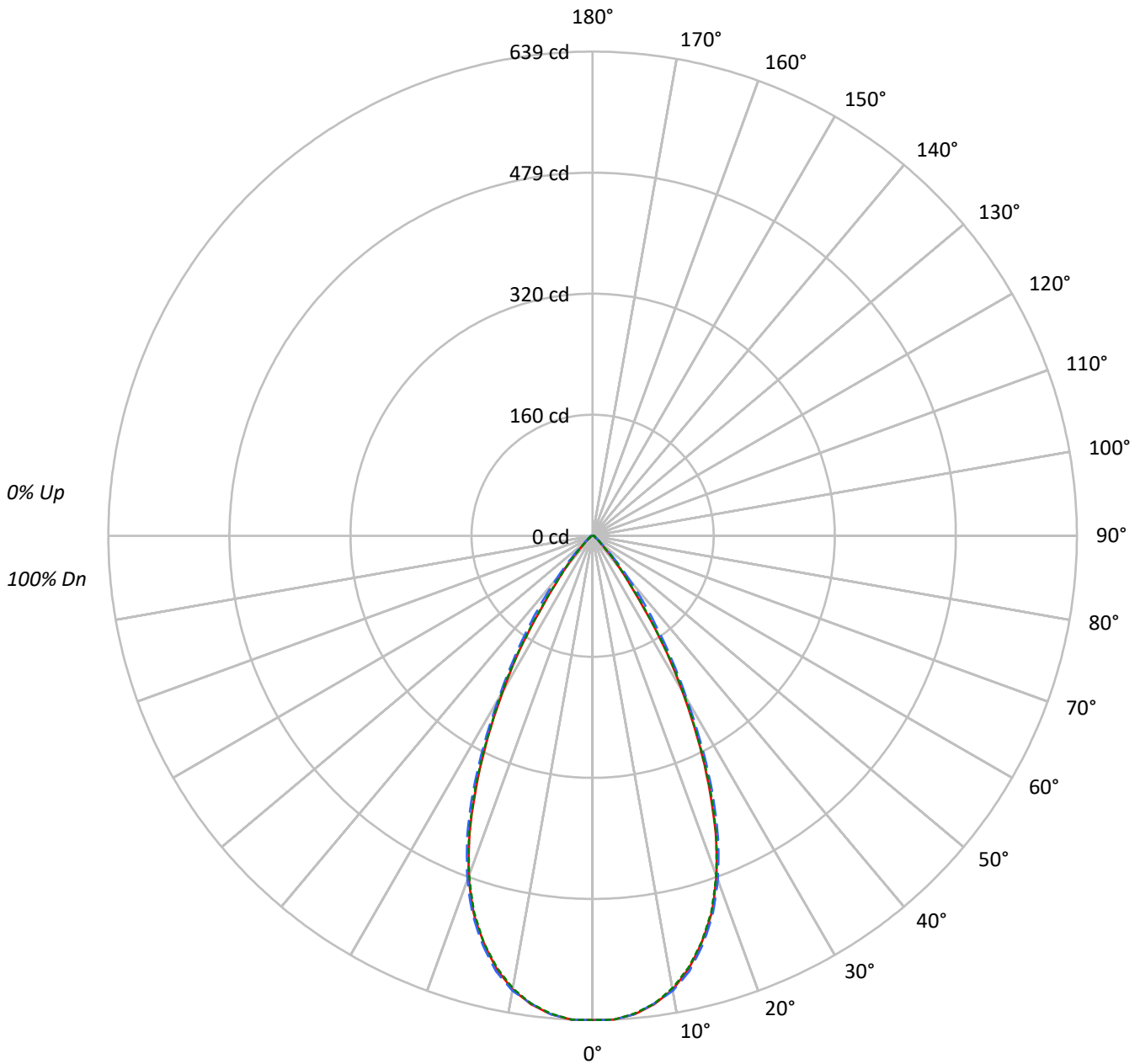
Lumens per Lamp: N/A
Luminaire Lumens: 502.9 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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°	247651	247651	247651
5°	246574	246574	246224
10°	239195	239903	238526
15°	223050	224414	222689
20°	197112	199256	196411
25°	154776	159950	156230
30°	105373	110832	107342
35°	57334	70059	58989
40°	28024	37685	28024
45°	11837	16605	12330
50°	6270	7837	6270
55°	4121	4662	4121
60°	3332	3332	3332
65°	3209	3209	3209
70°	2946	2946	2946
75°	2545	3893	2545
80°	3794	3794	3794
85°	4001	4001	4001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16605 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	11.9
10°-20°	154.9	30.8
20°-30°	166.2	33.1
30°-40°	87.0	17.3
40°-50°	22.4	4.4
50°-60°	6.1	1.2
60°-70°	3.6	0.7
70°-80°	2.3	0.5
80°-90°	0.7	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°	380.8	75.7
0°-40°	467.8	93.0
0°-60°	496.3	98.7
0°-90°	502.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	634	634	634	633	633	60
15°	556	557	559	556	555	155
25°	362	369	374	368	365	164
35°	121	137	148	136	125	81
45°	22	24	30	24	22	20
55°	6	6	7	6	6	6
65°	4	4	4	4	4	3
75°	2	3	3	3	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°	639.1	639.1	639.1	639.1	639.1
2.5°	639.1	639.1	639.1	638.2	639.1
5°	633.9	633.9	633.9	633.0	633.0
7.5°	623.5	623.5	622.6	623.5	622.6
10°	607.9	607.9	609.7	607.9	606.2
12.5°	585.4	586.3	588.9	585.4	583.7
15°	556.0	556.8	559.4	556.0	555.1
17.5°	522.2	525.7	525.7	523.1	520.5
20°	478.0	479.8	483.2	479.8	476.3
22.5°	424.3	433.0	433.0	428.7	426.1
25°	362.0	368.9	374.1	368.0	365.4
27.5°	298.8	304.8	310.0	304.8	300.5
30°	235.5	241.6	247.7	244.2	239.9
32.5°	181.0	187.9	194.8	188.8	181.9
35°	121.2	136.8	148.1	136.0	124.7
37.5°	80.5	89.2	108.2	90.9	81.4
40°	55.4	58.0	74.5	58.0	55.4
42.5°	35.5	39.0	48.5	39.0	36.4
45°	21.6	24.2	30.3	24.2	22.5
47.5°	14.7	15.6	18.2	15.6	14.7
50°	10.4	10.4	13.0	11.3	10.4
52.5°	7.8	7.8	9.5	8.7	7.8
55°	6.1	6.1	6.9	6.1	6.1
57.5°	4.3	5.2	5.2	5.2	4.3
60°	4.3	4.3	4.3	4.3	4.3
62.5°	3.5	4.3	4.3	4.3	3.5
65°	3.5	3.5	3.5	3.5	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	2.6	2.6	2.6	2.6	2.6
72.5°	2.6	2.6	2.6	2.6	2.6
75°	1.7	2.6	2.6	2.6	1.7
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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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