

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: P886235

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMWB-468LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-104)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMWB-468LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

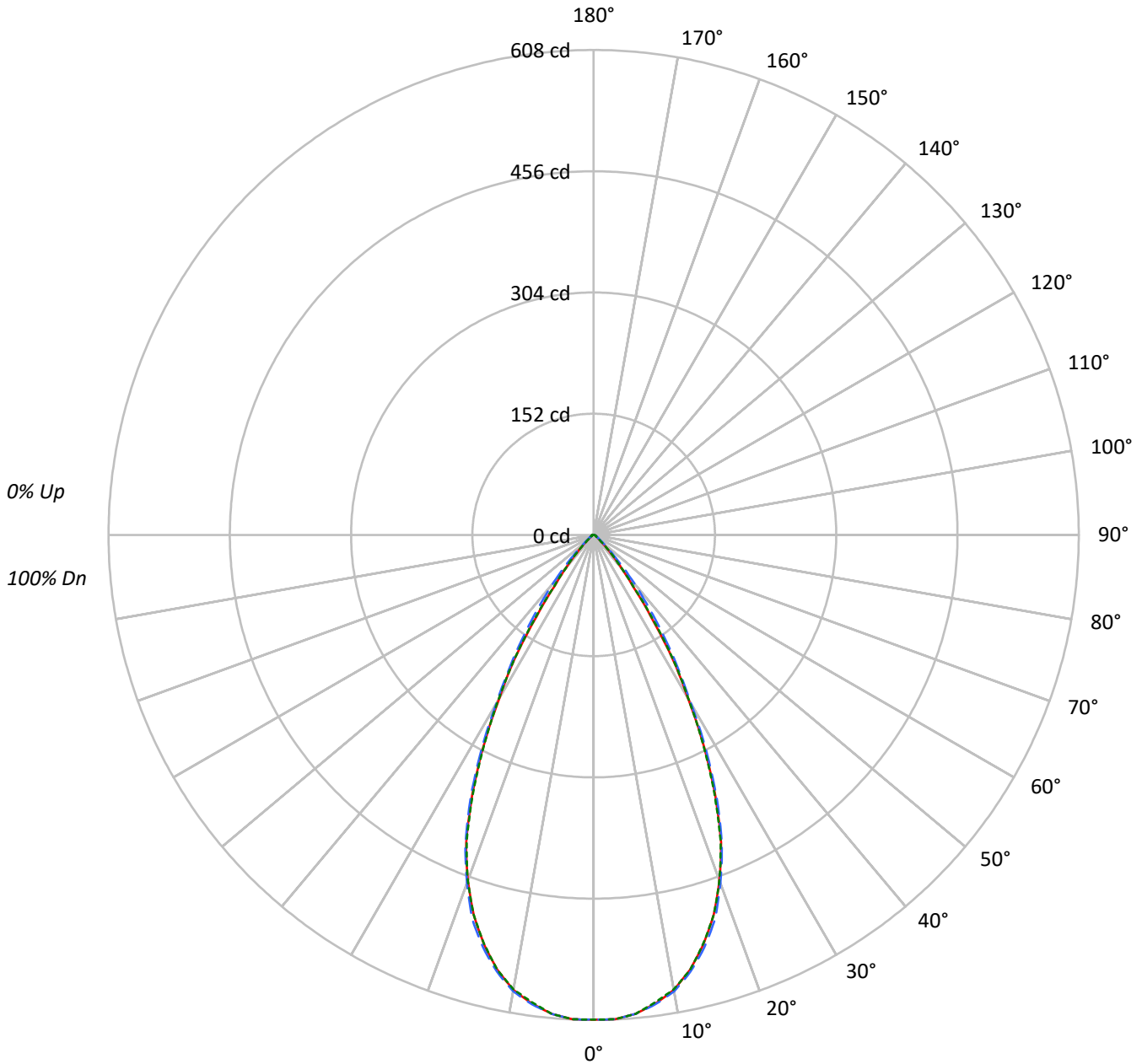
Lumens per Lamp: N/A
Luminaire Lumens: 490.6 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	235483	235483	235483
5°	234438	234438	234438
10°	227902	228571	227587
15°	213181	214866	212860
20°	190102	191504	190102
25°	154092	156273	153023
30°	105776	108774	106537
35°	59084	70201	61875
40°	27113	39456	27569
45°	11947	17920	11947
50°	5546	8078	5546
55°	3378	4526	3378
60°	2635	3255	2635
65°	3117	3117	3117
70°	2832	2832	2832
75°	2545	2545	2545
80°	3794	3794	3794
85°	3557	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17920 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	11.6
10°-20°	148.3	30.2
20°-30°	162.9	33.2
30°-40°	88.1	18.0
40°-50°	22.8	4.7
50°-60°	5.7	1.2
60°-70°	3.3	0.7
70°-80°	2.1	0.4
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°	368.0	75.0
0°-40°	456.1	93.0
0°-60°	484.6	98.8
0°-90°	490.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	490.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	603	602	603	602	603	57
15°	531	534	536	531	531	148
25°	360	363	366	364	358	162
35°	125	142	148	141	131	82
45°	22	24	33	25	22	19
55°	5	6	7	6	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°	607.7	607.7	607.7	607.7	607.7
2.5°	607.7	607.7	607.7	606.9	607.7
5°	602.7	601.9	602.7	601.9	602.7
7.5°	592.6	593.5	593.5	593.5	591.0
10°	579.2	579.2	580.9	579.2	578.4
12.5°	558.3	559.9	560.8	557.4	558.3
15°	531.4	534.0	535.6	531.4	530.6
17.5°	499.6	501.3	505.5	502.9	499.6
20°	461.0	464.4	464.4	462.7	461.0
22.5°	417.4	420.0	420.0	418.3	415.8
25°	360.4	363.0	365.5	363.8	357.9
27.5°	300.1	299.3	306.0	301.8	297.6
30°	236.4	239.7	243.1	239.7	238.1
32.5°	184.4	189.4	193.6	190.3	186.1
35°	124.9	141.7	148.4	140.8	130.8
37.5°	80.5	93.9	109.0	93.9	82.1
40°	53.6	58.7	78.0	60.4	54.5
42.5°	36.0	39.4	52.0	40.2	36.9
45°	21.8	24.3	32.7	25.1	21.8
47.5°	13.4	15.1	20.1	15.1	13.4
50°	9.2	10.9	13.4	10.9	9.2
52.5°	6.7	7.5	9.2	7.5	6.7
55°	5.0	5.9	6.7	5.9	5.0
57.5°	4.2	4.2	5.0	4.2	4.2
60°	3.4	4.2	4.2	4.2	3.4
62.5°	3.4	3.4	3.4	3.4	3.4
65°	3.4	3.4	3.4	3.4	3.4
67.5°	2.5	3.4	3.4	3.4	2.5
70°	2.5	2.5	2.5	2.5	2.5
72.5°	2.5	2.5	2.5	2.5	2.5
75°	1.7	1.7	1.7	1.7	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°	0.8	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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