

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: P886236

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMWB-468LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886236
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-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

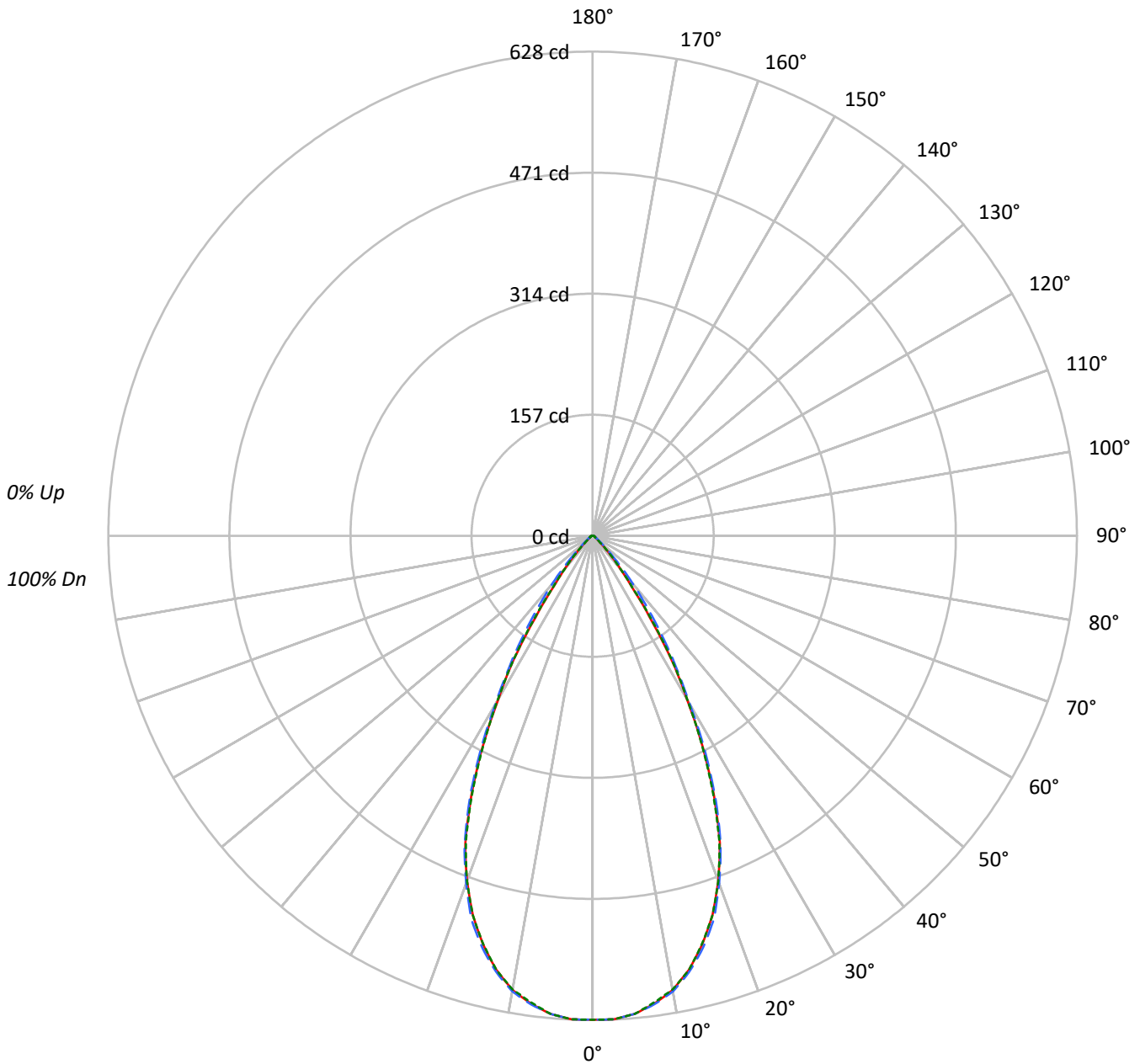
Lumens per Lamp: N/A
Luminaire Lumens: 506.8 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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°	243272	243272	243272
5°	242179	242179	242179
10°	235417	236126	235103
15°	220242	221967	219881
20°	196370	197813	196370
25°	159180	161403	158068
30°	109266	112354	110027
35°	61023	72518	63909
40°	28024	40720	28479
45°	12330	18523	12330
50°	5727	8380	5727
55°	3513	4662	3513
60°	2712	3332	2712
65°	3209	3209	3209
70°	2946	2946	2946
75°	2545	2545	2545
80°	3794	3794	3794
85°	4001	4001	4001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18523 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	11.6
10°-20°	153.2	30.2
20°-30°	168.3	33.2
30°-40°	91.0	18.0
40°-50°	23.6	4.7
50°-60°	5.9	1.2
60°-70°	3.4	0.7
70°-80°	2.2	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°	380.1	75.0
0°-40°	471.1	93.0
0°-60°	500.6	98.8
0°-90°	506.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	506.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	623	622	623	622	623	59
15°	549	552	553	549	548	153
25°	372	375	378	376	370	167
35°	129	146	153	146	135	84
45°	22	25	34	26	22	20
55°	5	6	7	6	5	5
65°	4	4	4	4	4	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°	627.8	627.8	627.8	627.8	627.8
2.5°	627.8	627.8	627.8	626.9	627.8
5°	622.6	621.7	622.6	621.7	622.6
7.5°	612.2	613.1	613.1	613.1	610.5
10°	598.3	598.3	600.1	598.3	597.5
12.5°	576.7	578.4	579.3	575.8	576.7
15°	549.0	551.6	553.3	549.0	548.1
17.5°	516.1	517.8	522.1	519.5	516.1
20°	476.2	479.7	479.7	478.0	476.2
22.5°	431.2	433.8	433.8	432.1	429.5
25°	372.3	374.9	377.5	375.8	369.7
27.5°	310.0	309.1	316.1	311.7	307.4
30°	244.2	247.6	251.1	247.6	245.9
32.5°	190.5	195.7	200.0	196.6	192.2
35°	129.0	146.3	153.3	145.5	135.1
37.5°	83.1	97.0	112.6	97.0	84.9
40°	55.4	60.6	80.5	62.3	56.3
42.5°	37.2	40.7	53.7	41.6	38.1
45°	22.5	25.1	33.8	26.0	22.5
47.5°	13.9	15.6	20.8	15.6	13.9
50°	9.5	11.3	13.9	11.3	9.5
52.5°	6.9	7.8	9.5	7.8	6.9
55°	5.2	6.1	6.9	6.1	5.2
57.5°	4.3	4.3	5.2	4.3	4.3
60°	3.5	4.3	4.3	4.3	3.5
62.5°	3.5	3.5	3.5	3.5	3.5
65°	3.5	3.5	3.5	3.5	3.5
67.5°	2.6	3.5	3.5	3.5	2.6
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	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°	0.9	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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