

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: P886223

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMB-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-103)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMB-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 516.1 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

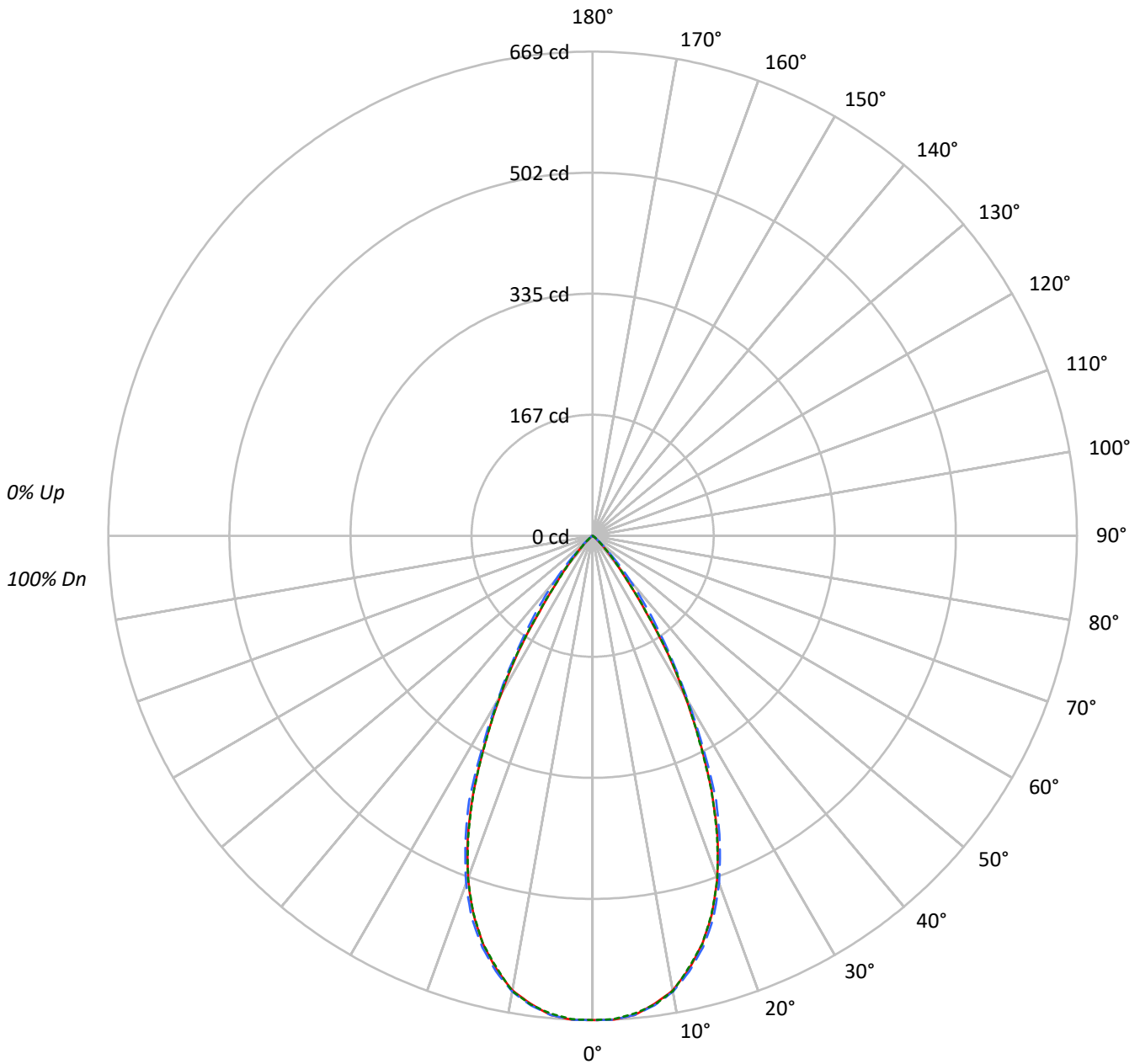
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					70					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	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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88								
3	104	97	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83								
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78								
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73								
6	90	81	76	72	88	80	75	71	79	74	71	78	73	70	76	73	70	68								
7	85	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	64								
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61								
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57								
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	259315	259315	259315
5°	258516	258516	257777
10°	250960	251668	251314
15°	234323	236168	234323
20°	207627	210679	207627
25°	166235	172563	165807
30°	113472	117633	115128
35°	60408	73985	61733
40°	26709	40265	27164
45°	10138	14687	10138
50°	2773	5004	3376
55°	608	1892	608
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14687 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	12.1
10°-20°	162.9	31.6
20°-30°	176.8	34.3
30°-40°	91.8	17.8
40°-50°	20.1	3.9
50°-60°	1.9	0.4
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	402.3	78.0
0°-40°	494.1	95.7
0°-60°	516.1	100.0
0°-90°	516.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	516.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	669	669	669	669	669	
5°	665	664	665	664	663	63
15°	584	586	589	585	584	162
25°	389	392	404	391	388	175
35°	128	144	156	146	130	85
45°	18	20	27	20	18	17
55°	1	2	3	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	669.2	669.2	669.2	669.2	669.2
2.5°	669.2	668.3	669.2	669.2	668.3
5°	664.6	663.7	664.6	663.7	662.7
7.5°	652.6	653.5	654.4	653.5	653.5
10°	637.8	638.7	639.6	638.7	638.7
12.5°	613.7	615.5	616.5	615.5	611.8
15°	584.1	585.9	588.7	585.0	584.1
17.5°	548.0	552.6	554.4	550.7	547.0
20°	503.5	508.2	510.9	508.2	503.5
22.5°	450.8	457.3	459.1	456.3	448.9
25°	388.8	391.5	403.6	390.6	387.8
27.5°	320.3	324.9	330.4	325.8	318.4
30°	253.6	258.2	262.9	260.1	257.3
32.5°	193.5	204.6	205.5	201.8	197.2
35°	127.7	143.5	156.4	146.2	130.5
37.5°	80.5	90.7	113.9	91.6	81.5
40°	52.8	57.4	79.6	58.3	53.7
42.5°	33.3	37.0	49.1	36.1	33.3
45°	18.5	20.4	26.8	20.4	18.5
47.5°	9.3	11.1	15.7	11.1	10.2
50°	4.6	6.5	8.3	6.5	5.6
52.5°	1.9	3.7	4.6	3.7	2.8
55°	0.9	1.9	2.8	0.9	0.9
57.5°	0.0	0.0	0.9	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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