

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: P886103

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMB-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMB-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 400.9 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

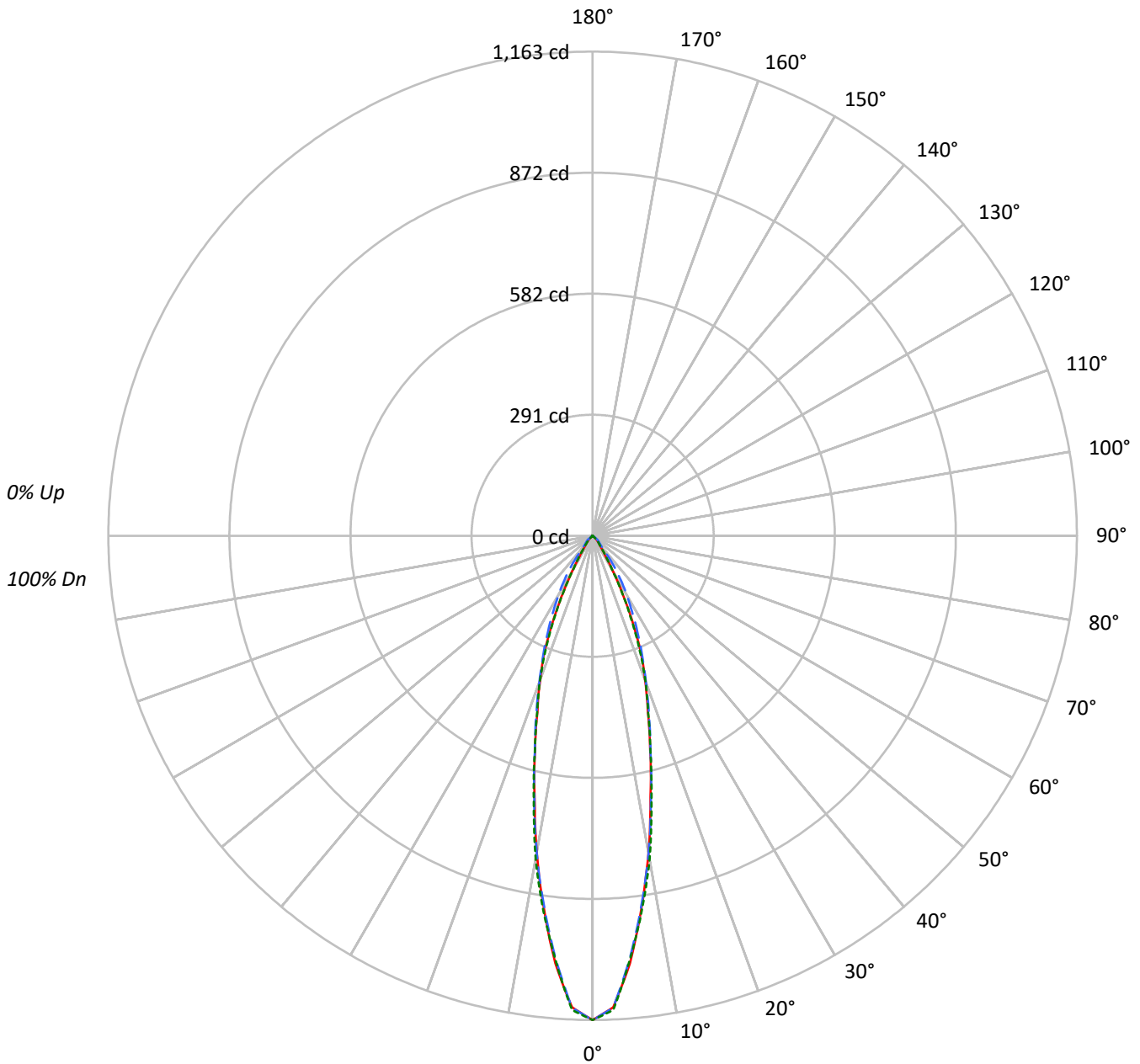
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91					91			
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	97	90	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78					78			
6	94	86	81	78	92	86	81	77	84	80	77	83	79	76	82	78	76	75					75			
7	90	82	77	74	89	82	77	74	81	76	73	80	76	73	79	75	73	72					72			
8	87	79	74	71	86	78	74	70	77	73	70	77	73	70	76	72	70	69					69			
9	84	76	71	68	83	75	71	67	74	70	67	74	70	67	73	69	67	66					66			
10	81	73	68	65	80	72	68	65	72	67	65	71	67	64	70	67	64	63					63			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	450739	450739	450739
5°	400921	396604	398043
10°	303922	304630	310099
15°	214385	215468	215107
20°	151999	153896	152370
25°	95046	108472	92267
30°	42284	73336	41433
35°	17976	42480	18827
40°	10774	16845	10774
45°	6083	11673	5096
50°	543	8922	543
55°	0	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: 11673 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	22.4
10°-20°	150.0	37.4
20°-30°	108.9	27.2
30°-40°	39.2	9.8
40°-50°	11.4	2.9
50°-60°	1.4	0.3
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°	348.8	87.0
0°-40°	388.0	96.8
0°-60°	400.9	100.0
0°-90°	400.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	400.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1031	1022	1020	1028	1023	90
15°	534	534	537	531	536	149
25°	222	245	254	238	216	101
35°	38	52	90	52	40	28
45°	11	15	21	15	9	8
55°	0	1	3	1	1	0
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°	1163.2	1163.2	1163.2	1163.2	1163.2
2.5°	1133.5	1130.8	1134.5	1135.4	1140.0
5°	1030.7	1021.5	1019.6	1028.0	1023.3
7.5°	900.2	901.1	896.5	906.6	907.6
10°	772.4	773.3	774.2	777.9	788.1
12.5°	642.7	645.5	646.4	644.6	652.9
15°	534.4	534.4	537.1	530.6	536.2
17.5°	440.8	444.5	449.2	443.6	442.7
20°	368.6	371.4	373.2	372.3	369.5
22.5°	302.8	308.4	310.2	302.8	292.6
25°	222.3	245.4	253.7	238.0	215.8
27.5°	151.0	182.4	203.7	176.0	149.1
30°	94.5	121.3	163.9	121.3	92.6
32.5°	57.4	75.9	125.9	78.7	60.2
35°	38.0	51.9	89.8	51.9	39.8
37.5°	27.8	36.1	52.8	36.1	28.7
40°	21.3	25.0	33.3	25.9	21.3
42.5°	16.7	19.4	25.0	19.4	15.7
45°	11.1	14.8	21.3	14.8	9.3
47.5°	1.9	8.3	18.5	7.4	4.6
50°	0.9	0.9	14.8	2.8	0.9
52.5°	0.9	0.9	8.3	0.9	0.9
55°	0.0	0.9	2.8	0.9	0.9
57.5°	0.0	0.0	0.0	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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