

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: P886108

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMBB-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-94)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMBB-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

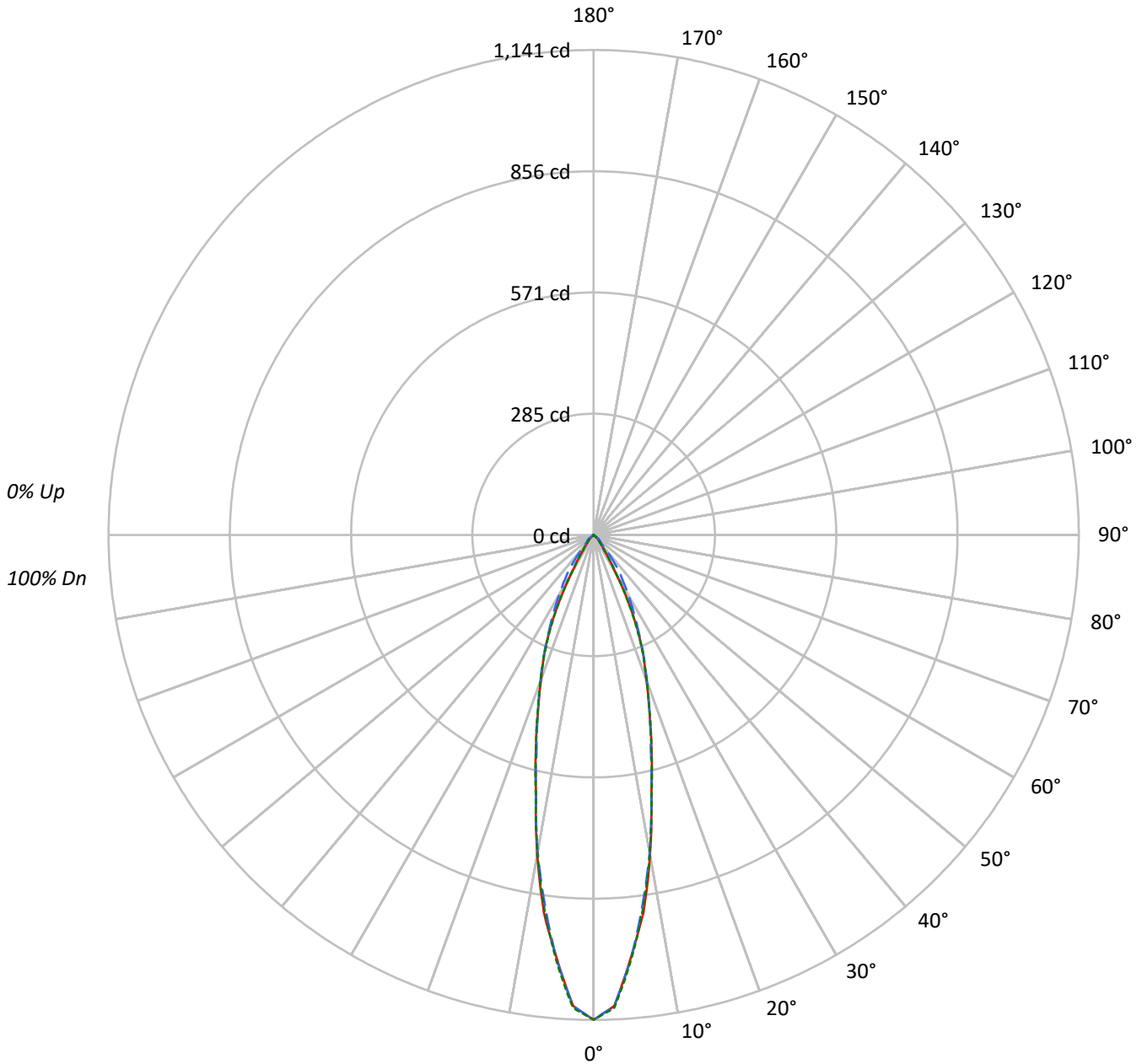
Lumens per Lamp: N/A
Luminaire Lumens: 404.8 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95								
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90								
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86								
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82								
5	97	90	85	81	95	89	84	81	87	83	80	86	82	80	84	81	79	78								
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74								
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71								
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68								
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65								
10	80	72	67	64	79	72	67	64	71	67	64	70	66	63	69	66	63	62								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	441982	441982	441982
5°	388513	389602	391041
10°	300774	298216	299318
15°	210734	207765	210012
20°	148618	150927	150143
25°	102999	106163	101032
30°	47698	72128	48100
35°	19726	48204	20578
40°	11230	19677	11736
45°	7124	12166	7617
50°	543	10067	543
55°	608	2500	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: 12166 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	21.8
10°-20°	146.8	36.3
20°-30°	111.6	27.6
30°-40°	43.5	10.7
40°-50°	12.9	3.2
50°-60°	1.8	0.5
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°	346.5	85.6
0°-40°	390.0	96.4
0°-60°	404.8	100.0
0°-90°	404.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	404.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	999	1004	1002	1000	1005	89
15°	525	522	518	525	524	147
25°	241	250	248	248	236	107
35°	42	56	102	57	44	31
45°	13	17	22	17	14	9
55°	1	1	4	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°	1140.6	1140.6	1140.6	1140.6	1140.6
2.5°	1109.1	1110.0	1109.1	1113.7	1113.7
5°	998.8	1004.4	1001.6	999.7	1005.3
7.5°	896.0	883.9	878.4	882.1	888.5
10°	764.4	760.7	757.9	761.6	760.7
12.5°	626.3	629.1	626.3	631.0	628.2
15°	525.3	521.6	517.9	525.3	523.5
17.5°	435.5	439.2	435.5	437.3	437.3
20°	360.4	366.9	366.0	366.9	364.1
22.5°	304.8	303.9	305.8	304.8	302.1
25°	240.9	250.2	248.3	248.3	236.3
27.5°	172.3	191.8	202.0	194.6	170.5
30°	106.6	139.0	161.2	134.3	107.5
32.5°	67.6	88.9	128.8	87.1	68.6
35°	41.7	55.6	101.9	57.4	43.5
37.5°	29.6	39.8	70.4	39.8	29.6
40°	22.2	27.8	38.9	27.8	23.2
42.5°	17.6	21.3	25.9	21.3	18.5
45°	13.0	16.7	22.2	16.7	13.9
47.5°	3.7	11.1	19.5	11.1	5.6
50°	0.9	1.9	16.7	3.7	0.9
52.5°	0.9	0.9	12.0	0.9	0.9
55°	0.9	0.9	3.7	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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