

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: P886122

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSL-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-90)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSL-468LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 427.2 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

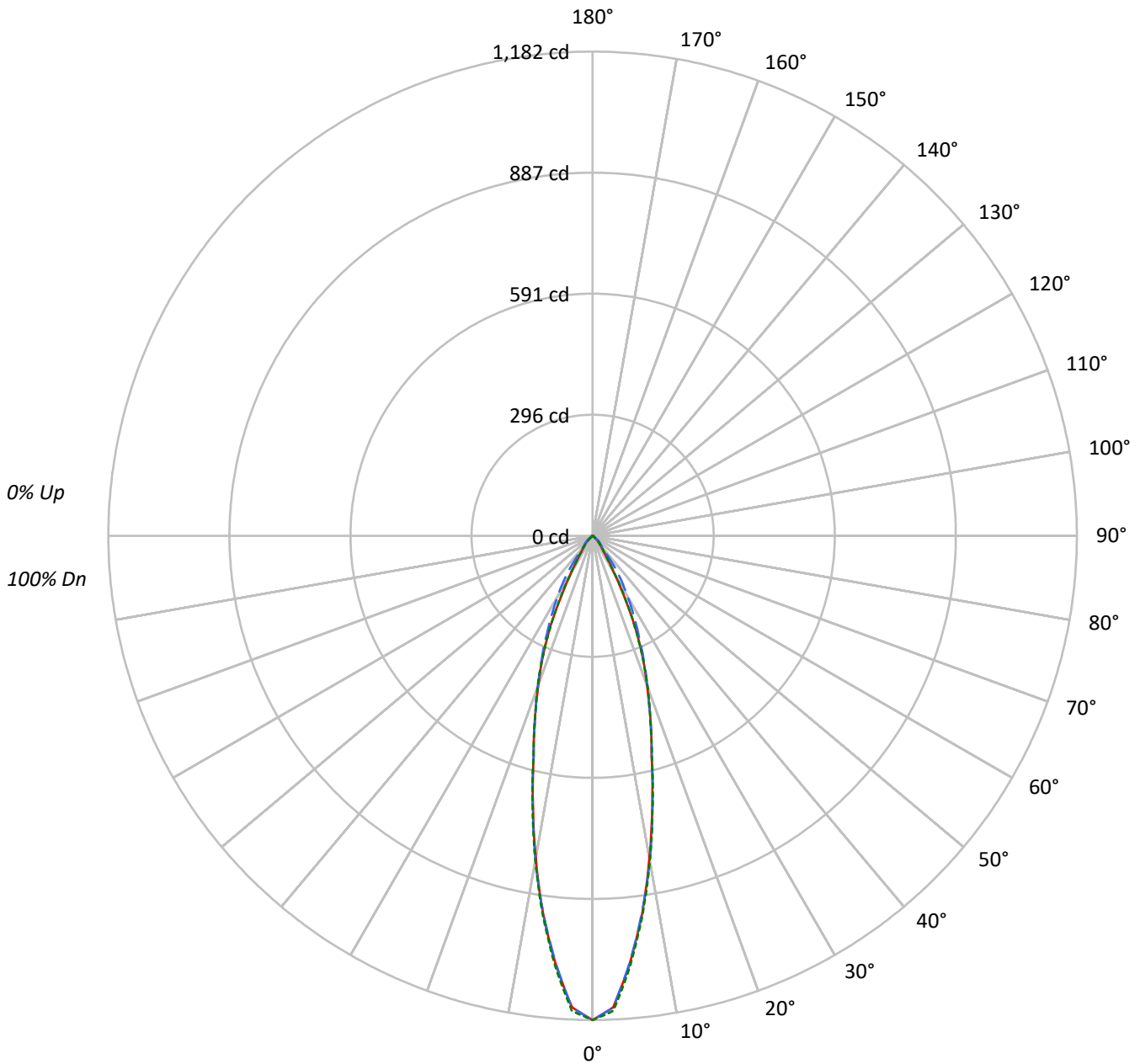
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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			100																
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95																
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90			90																
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86			86																
4	101	94	90	86	99	93	89	85	91	87	84	89	86	84	87	85	83	81			81																
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	84	81	79	77			77																
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74			74																
7	89	82	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70			70																
8	86	78	73	69	85	77	73	69	76	72	69	76	72	69	75	71	68	67			67																
9	83	75	70	66	82	74	70	66	73	69	66	73	69	66	72	68	66	65			65																
10	80	72	67	64	79	71	67	63	71	66	63	70	66	63	69	66	63	62			62																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	458179	458179	458179
5°	406989	405939	409790
10°	314152	316631	316985
15°	222970	224053	224053
20°	159463	160906	162019
25°	103726	112875	102956
30°	48056	75708	48056
35°	22423	45318	22848
40°	14922	17654	14467
45°	7836	13755	8330
50°	2713	10248	2713
55°	1824	2432	1824
60°	1395	1395	1395
65°	825	825	825
70°	1020	1020	1020
75°	1347	0	1347
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	21.6
10°-20°	156.5	36.6
20°-30°	115.5	27.0
30°-40°	43.7	10.2
40°-50°	14.4	3.4
50°-60°	3.3	0.8
60°-70°	1.1	0.2
70°-80°	0.5	0.1
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°	364.2	85.3
0°-40°	407.9	95.5
0°-60°	425.7	99.6
0°-90°	427.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	427.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1046	1044	1044	1048	1054	92
15°	556	556	558	558	558	156
25°	243	257	264	255	241	108
35°	47	59	96	60	48	34
45°	14	19	25	19	15	11
55°	3	3	4	3	3	3
65°	1	1	1	1	1	1
75°	1	1	0	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.4	1182.4	1182.4	1182.4	1182.4
2.5°	1151.9	1151.9	1152.8	1155.5	1160.9
5°	1046.3	1043.6	1043.6	1048.1	1053.5
7.5°	928.2	927.3	926.4	926.4	932.7
10°	798.4	802.9	804.7	796.6	805.6
12.5°	672.2	665.0	674.9	669.5	676.7
15°	555.8	555.8	558.5	557.6	558.5
17.5°	469.0	469.9	465.4	467.2	466.3
20°	386.7	389.4	390.2	391.1	392.9
22.5°	317.7	321.3	324.0	322.2	315.1
25°	242.6	256.9	264.0	255.1	240.8
27.5°	162.9	189.8	214.8	192.4	168.3
30°	107.4	130.7	169.2	129.8	107.4
32.5°	69.8	85.9	132.5	85.0	68.9
35°	47.4	59.1	95.8	60.0	48.3
37.5°	36.7	42.1	57.3	42.1	36.7
40°	29.5	30.4	34.9	31.3	28.6
42.5°	23.3	24.2	28.6	24.2	22.4
45°	14.3	18.8	25.1	18.8	15.2
47.5°	6.3	10.7	20.6	10.7	6.3
50°	4.5	4.5	17.0	4.5	4.5
52.5°	3.6	3.6	10.7	3.6	3.6
55°	2.7	2.7	3.6	2.7	2.7
57.5°	2.7	1.8	1.8	1.8	2.7
60°	1.8	1.8	1.8	1.8	1.8
62.5°	1.8	0.9	0.9	0.9	1.8
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.0	0.9	0.9
75°	0.9	0.9	0.0	0.9	0.9
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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