

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: P886182

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-96)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 538.4 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

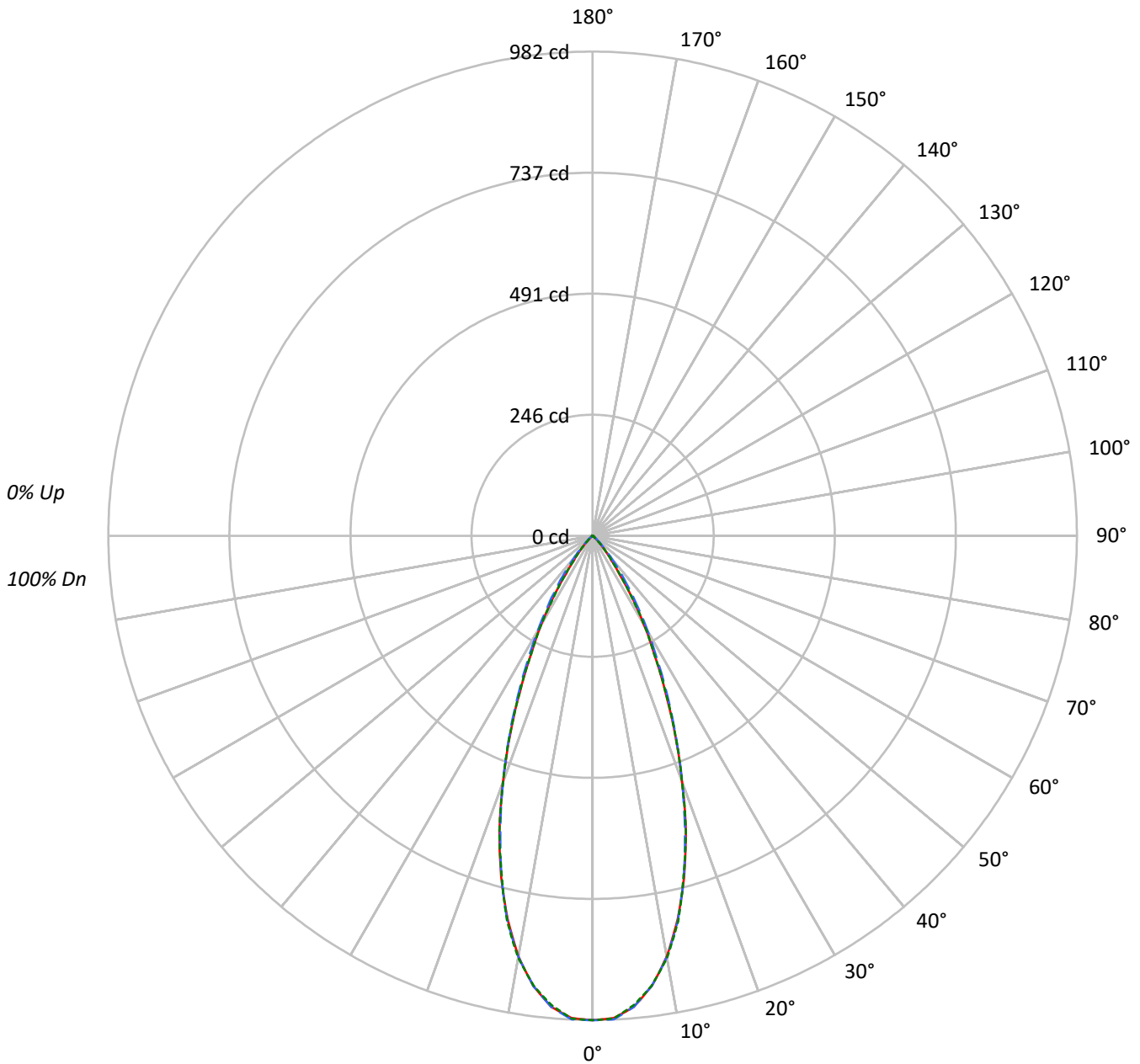
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95					95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89					89			
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85					85			
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80					80			
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76					76			
6	92	84	79	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72					72			
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68					68			
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65					65			
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62					62			
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59					59			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	95180	95180	95180
5°	93288	93288	92938
10°	85198	85287	85464
15°	71860	71679	71499
20°	54660	54753	54660
25°	37241	38299	37433
30°	23346	24845	23547
35°	11117	14617	11542
40°	5324	7474	5210
45°	1836	3192	1836
50°	678	1221	678
55°	304	304	304
60°	174	174	174
65°	206	206	206
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: 3192 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	16.4
10°-20°	196.1	36.4
20°-30°	162.9	30.3
30°-40°	72.1	13.4
40°-50°	16.1	3.0
50°-60°	2.0	0.4
60°-70°	0.7	0.1
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°	447.5	83.1
0°-40°	519.6	96.5
0°-60°	537.7	99.9
0°-90°	538.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	538.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	959	959	959	958	956	89
15°	716	712	715	712	713	196
25°	348	356	358	356	350	161
35°	94	109	124	109	98	66
45°	13	18	23	17	13	13
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
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°	982.5	982.5	982.5	982.5	982.5
2.5°	979.0	979.9	981.6	979.0	979.9
5°	959.3	959.3	959.3	958.4	955.7
7.5°	920.7	919.8	920.7	918.9	919.8
10°	866.1	868.8	867.0	867.0	868.8
12.5°	796.2	804.3	798.9	798.0	800.7
15°	716.5	712.1	714.7	712.1	712.9
17.5°	628.8	619.8	621.6	625.2	628.8
20°	530.2	532.0	531.1	532.0	530.2
22.5°	438.0	443.4	441.6	441.6	439.8
25°	348.4	355.6	358.3	356.5	350.2
27.5°	270.5	275.0	284.8	275.9	269.6
30°	208.7	213.2	222.1	212.3	210.5
32.5°	149.6	159.4	168.4	158.5	146.9
35°	94.0	109.3	123.6	109.3	97.6
37.5°	61.8	69.9	88.7	69.9	63.6
40°	42.1	46.6	59.1	45.7	41.2
42.5°	26.0	30.5	37.6	29.6	26.0
45°	13.4	17.9	23.3	17.0	13.4
47.5°	7.2	8.1	15.2	9.0	6.3
50°	4.5	4.5	8.1	4.5	4.5
52.5°	2.7	2.7	3.6	2.7	2.7
55°	1.8	1.8	1.8	1.8	1.8
57.5°	0.9	0.9	1.8	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.0	0.0	0.9
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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