

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: P886247

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-105)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

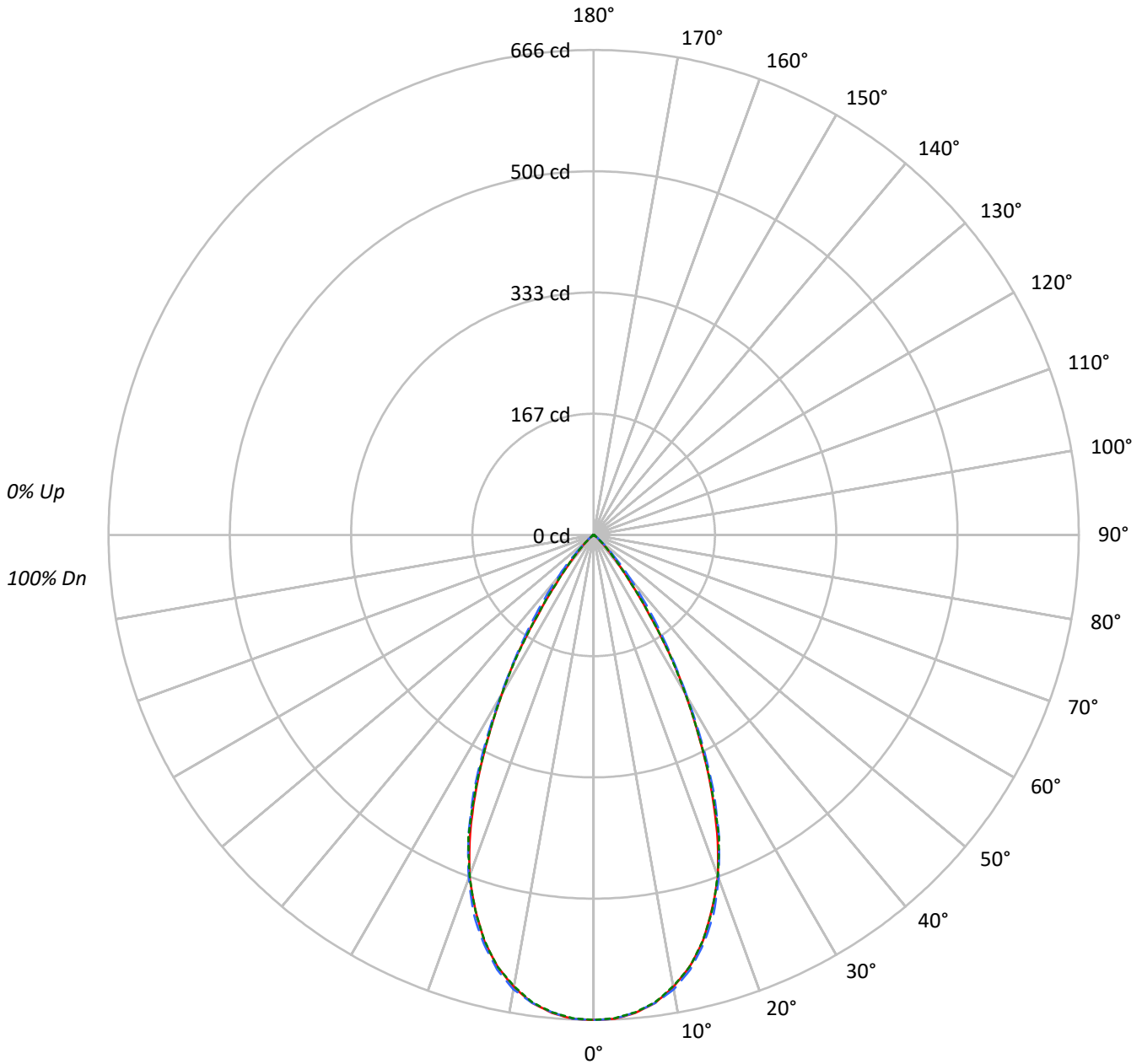
Lumens per Lamp: N/A
Luminaire Lumens: 513.5 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88								
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82								
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72								
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68								
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60								
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57								
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	258075	258075	258075
5°	256260	255910	255910
10°	247969	249386	247615
15°	231996	233400	231635
20°	205607	206720	205236
25°	162643	166491	163413
30°	112533	114143	112130
35°	62253	71572	63531
40°	28074	38950	28530
45°	11782	15673	12275
50°	4883	5908	4883
55°	1824	2432	1824
60°	697	697	697
65°	825	825	825
70°	1020	0	1020
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15673 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	12.1
10°-20°	160.9	31.3
20°-30°	173.4	33.8
30°-40°	91.3	17.8
40°-50°	21.8	4.2
50°-60°	3.3	0.6
60°-70°	0.8	0.2
70°-80°	0.1	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°	396.3	77.2
0°-40°	487.5	94.9
0°-60°	512.6	99.8
0°-90°	513.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	513.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	659	659	658	658	658	62
15°	578	578	582	578	577	160
25°	380	384	389	385	382	172
35°	132	144	151	143	134	86
45°	22	23	29	23	22	19
55°	3	3	4	3	3	3
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°	666.0	666.0	666.0	666.0	666.0
2.5°	665.1	665.1	665.1	664.2	664.2
5°	658.8	658.8	657.9	657.9	657.9
7.5°	648.1	649.0	648.1	647.2	647.2
10°	630.2	632.0	633.8	632.9	629.3
12.5°	607.8	607.8	611.4	607.8	607.8
15°	578.3	578.3	581.8	578.3	577.4
17.5°	539.8	542.4	546.9	542.4	540.7
20°	498.6	498.6	501.3	501.3	497.7
22.5°	443.1	446.7	449.4	448.5	449.4
25°	380.4	384.0	389.4	384.9	382.2
27.5°	313.3	316.9	321.4	320.5	315.1
30°	251.5	256.0	255.1	254.2	250.6
32.5°	195.1	198.7	199.6	197.8	192.5
35°	131.6	144.1	151.3	143.2	134.3
37.5°	85.0	95.8	110.1	96.7	85.9
40°	55.5	59.1	77.0	62.7	56.4
42.5°	34.9	38.5	51.0	38.5	35.8
45°	21.5	23.3	28.6	23.3	22.4
47.5°	12.5	13.4	17.0	13.4	13.4
50°	8.1	8.1	9.8	8.1	8.1
52.5°	4.5	5.4	6.3	5.4	5.4
55°	2.7	2.7	3.6	2.7	2.7
57.5°	1.8	1.8	1.8	1.8	1.8
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	0.9	0.9	0.9
70°	0.9	0.0	0.0	0.0	0.9
72.5°	0.9	0.0	0.0	0.0	0.9
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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