

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P886189

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDSLB-468LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDSLB-468LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

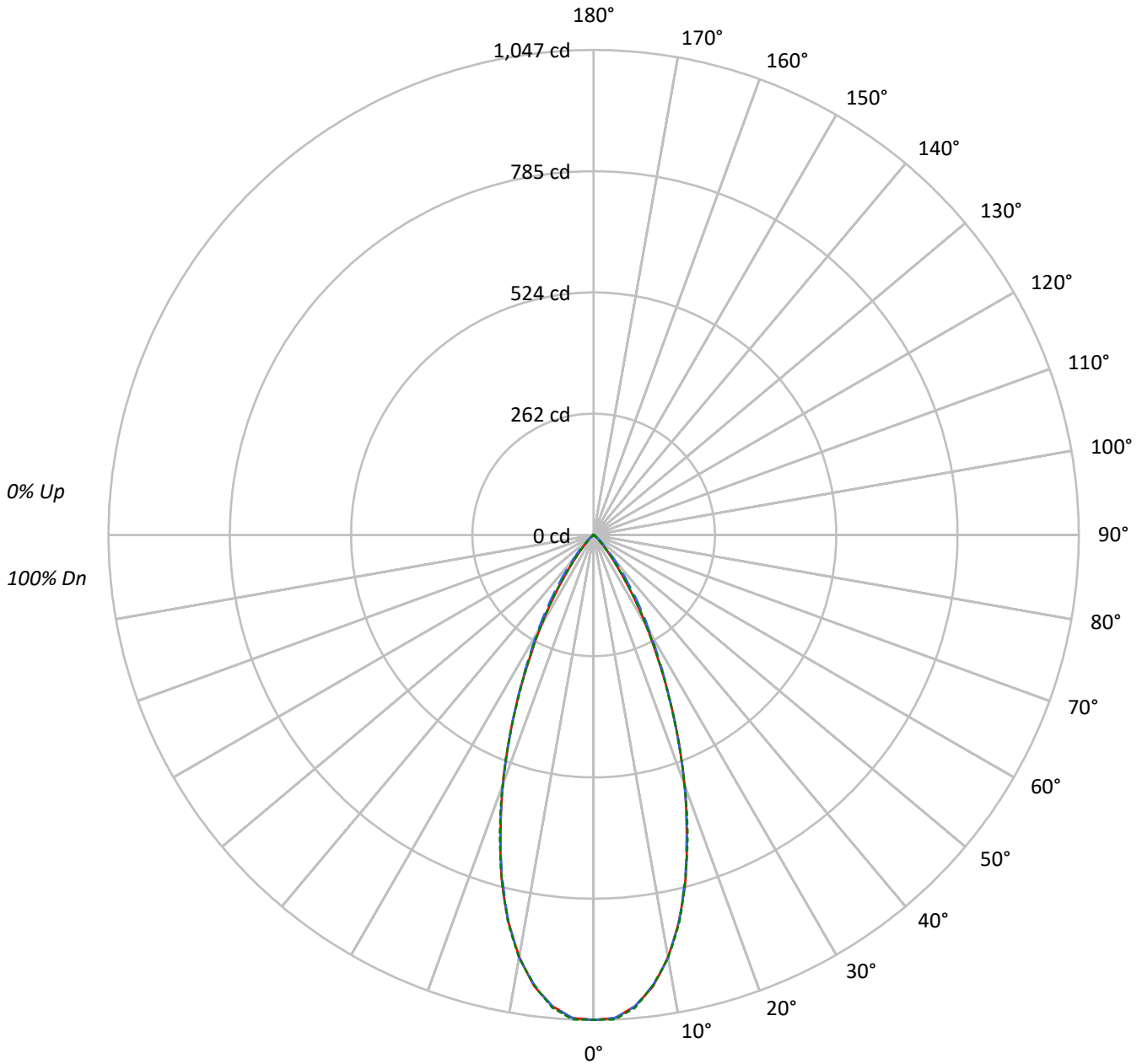
Lumens per Lamp: N/A
Luminaire Lumens: 586.3 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89								
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84								
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80								
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75								
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	73	71								
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68								
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64								
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61								
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	405596	405596	405596
5°	397304	397304	398471
10°	363966	364753	364360
15°	307817	306252	307416
20°	236493	236493	236493
25°	164439	164439	162771
30°	101928	108058	102376
35°	52035	64950	53880
40°	23623	34954	24635
45°	9590	14961	9590
50°	3496	7053	3496
55°	1959	1959	1959
60°	775	775	775
65°	917	917	917
70°	1133	0	1133
75°	1497	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 14961 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	16.1
10°-20°	210.1	35.8
20°-30°	176.9	30.2
30°-40°	81.3	13.9
40°-50°	19.5	3.3
50°-60°	2.9	0.5
60°-70°	1.0	0.2
70°-80°	0.2	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°	481.4	82.1
0°-40°	562.7	96.0
0°-60°	585.1	99.8
0°-90°	586.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	586.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1021	1022	1021	1022	1024	94
15°	767	769	763	763	766	210
25°	385	386	385	386	381	176
35°	110	126	137	127	114	74
45°	18	21	27	22	18	16
55°	3	3	3	3	3	3
65°	1	1	1	1	1	1
75°	1	0	0	0	0	1
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°	1046.7	1046.7	1046.7	1046.7	1046.7
2.5°	1043.8	1042.9	1043.8	1044.8	1046.7
5°	1021.4	1022.4	1021.4	1022.4	1024.4
7.5°	982.5	983.5	980.5	981.5	980.5
10°	925.0	927.0	927.0	927.0	926.0
12.5°	853.0	853.0	852.0	849.1	854.9
15°	767.3	769.2	763.4	763.4	766.3
17.5°	668.0	668.9	667.0	672.8	673.8
20°	573.5	574.5	573.5	572.5	573.5
22.5°	475.2	479.1	474.2	481.0	476.1
25°	384.6	385.6	384.6	385.6	380.7
27.5°	298.0	299.9	308.7	303.8	299.9
30°	227.8	232.7	241.5	232.7	228.8
32.5°	165.5	177.2	187.0	180.1	168.5
35°	110.0	125.6	137.3	126.6	113.9
37.5°	73.0	80.8	98.3	82.8	74.0
40°	46.7	52.6	69.1	53.6	48.7
42.5°	31.2	35.1	44.8	36.0	32.1
45°	17.5	21.4	27.3	22.4	17.5
47.5°	8.8	11.7	18.5	11.7	8.8
50°	5.8	5.8	11.7	5.8	5.8
52.5°	3.9	3.9	5.8	3.9	3.9
55°	2.9	2.9	2.9	2.9	2.9
57.5°	1.9	1.9	1.9	1.9	1.9
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.0	1.0	1.0
72.5°	1.0	0.0	0.0	0.0	1.0
75°	1.0	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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