

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: P886438

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886438
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: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

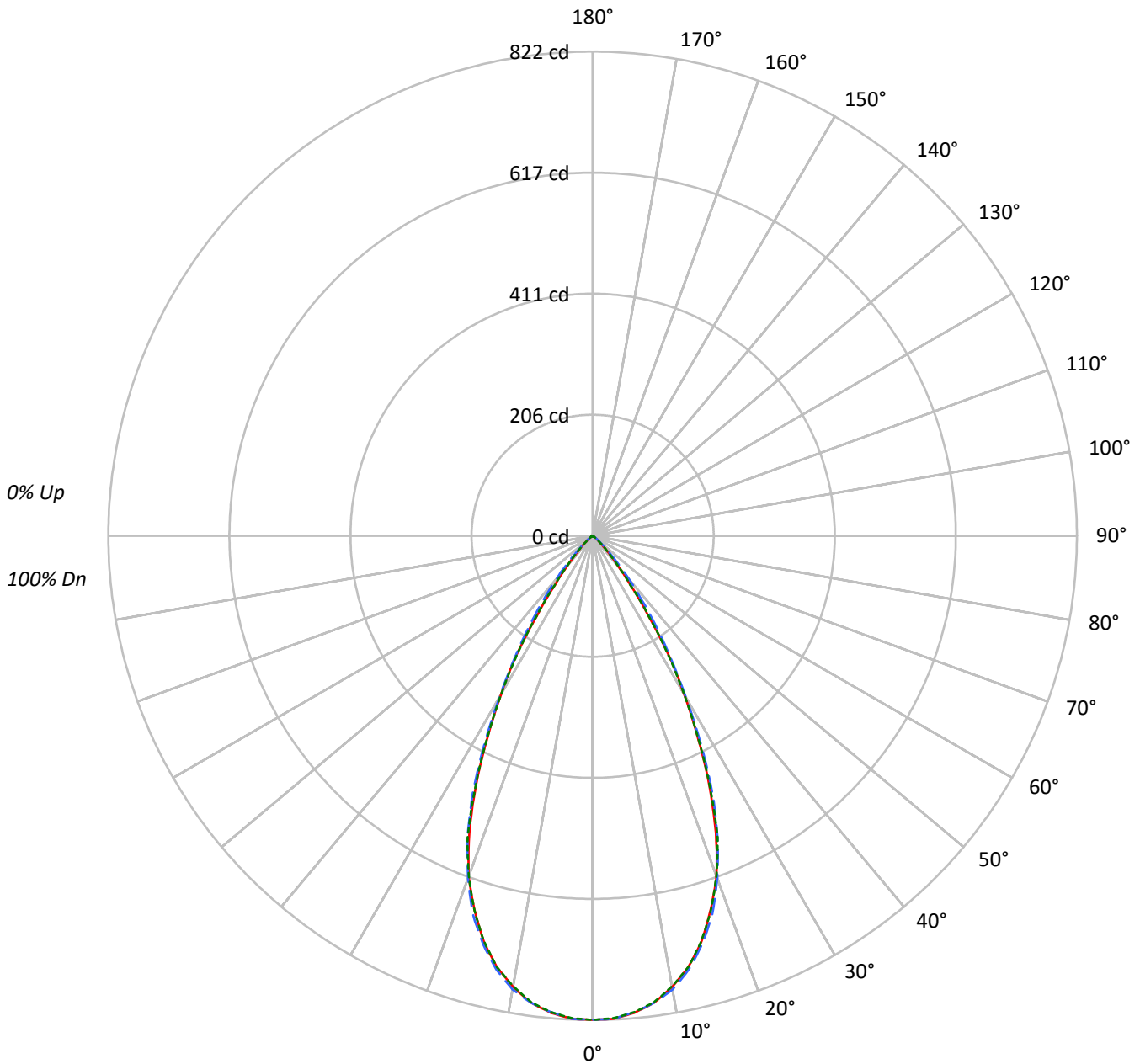
Lumens per Lamp: N/A
Luminaire Lumens: 633.6 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
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	109	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°	318447	318447	318447
5°	316240	315813	315813
10°	305968	307699	305535
15°	286234	288039	285793
20°	253689	255091	253235
25°	200696	205442	201636
30°	138887	140856	138395
35°	76823	88318	78384
40°	34650	48055	35207
45°	14522	19345	15125
50°	5968	7355	5968
55°	2229	2973	2229
60°	852	852	852
65°	1009	1009	1009
70°	1246	0	1246
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19345 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	12.1
10°-20°	198.5	31.3
20°-30°	214.0	33.8
30°-40°	112.6	17.8
40°-50°	26.9	4.2
50°-60°	4.0	0.6
60°-70°	1.0	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°	489.0	77.2
0°-40°	601.6	95.0
0°-60°	632.5	99.8
0°-90°	633.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	633.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	813	813	812	812	812	77
15°	714	714	718	714	712	198
25°	469	474	480	475	472	212
35°	162	178	187	177	166	106
45°	26	29	35	29	28	23
55°	3	3	4	3	3	4
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°	821.8	821.8	821.8	821.8	821.8
2.5°	820.7	820.7	820.7	819.6	819.6
5°	813.0	813.0	811.9	811.9	811.9
7.5°	799.7	800.8	799.7	798.6	798.6
10°	777.6	779.8	782.0	780.9	776.5
12.5°	750.0	750.0	754.4	750.0	750.0
15°	713.5	713.5	718.0	713.5	712.4
17.5°	666.1	669.4	674.9	669.4	667.2
20°	615.2	615.2	618.6	618.6	614.1
22.5°	546.8	551.2	554.5	553.4	554.5
25°	469.4	473.9	480.5	475.0	471.6
27.5°	386.6	391.0	396.5	395.4	388.8
30°	310.4	315.9	314.8	313.7	309.3
32.5°	240.8	245.2	246.3	244.1	237.5
35°	162.4	177.8	186.7	176.7	165.7
37.5°	104.9	118.2	135.9	119.3	106.0
40°	68.5	72.9	95.0	77.3	69.6
42.5°	43.1	47.5	63.0	47.5	44.2
45°	26.5	28.7	35.3	28.7	27.6
47.5°	15.5	16.6	21.0	16.6	16.6
50°	9.9	9.9	12.2	9.9	9.9
52.5°	5.5	6.6	7.7	6.6	6.6
55°	3.3	3.3	4.4	3.3	3.3
57.5°	2.2	2.2	2.2	2.2	2.2
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	0.0	0.0	0.0	1.1
72.5°	1.1	0.0	0.0	0.0	1.1
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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