

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: P886417

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMBB-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-106)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMBB-550LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

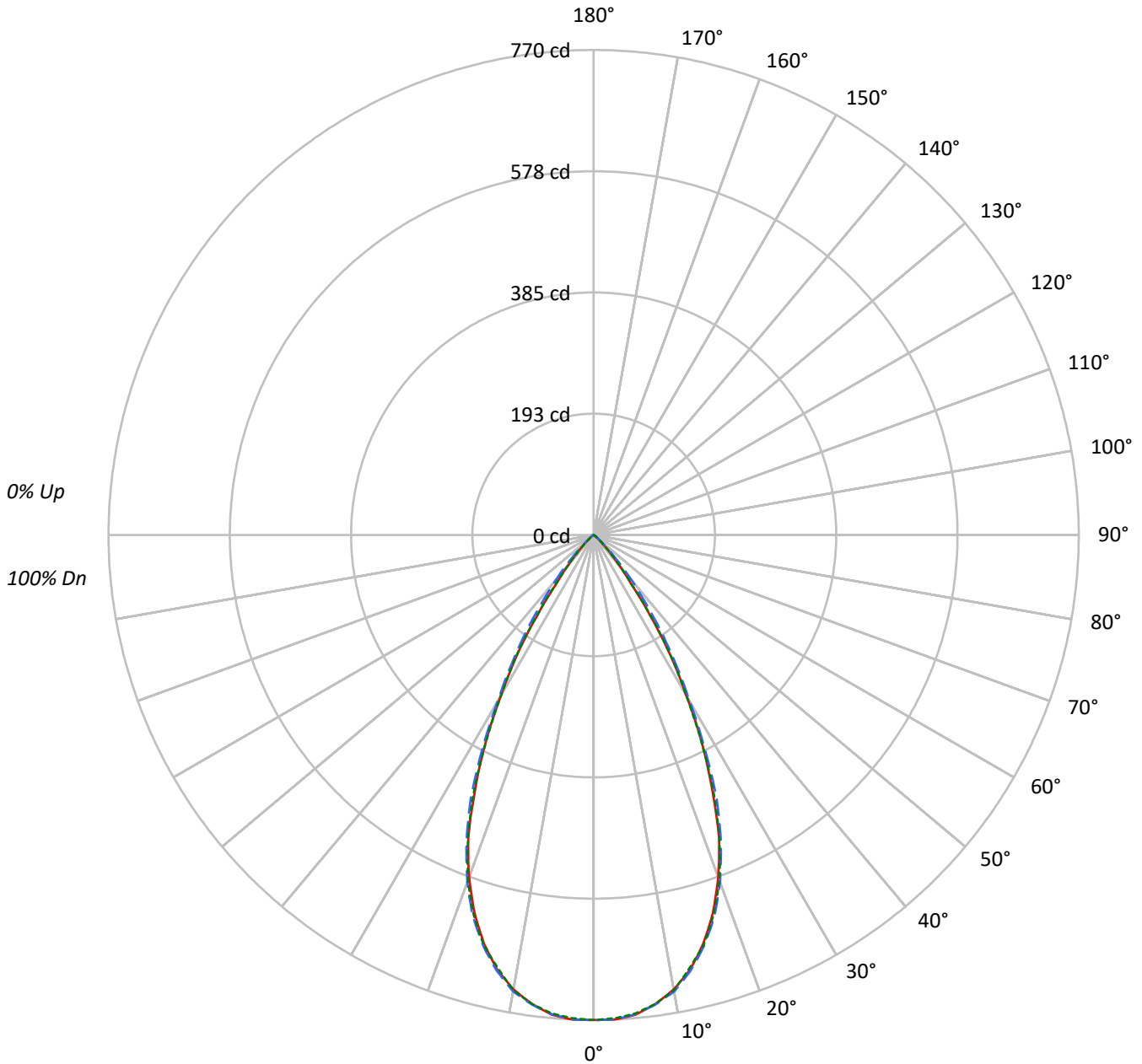
Lumens per Lamp: N/A
Luminaire Lumens: 598.3 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	298452	298452	298452
5°	297492	297103	296675
10°	288340	289599	288773
15°	269545	271270	270388
20°	238308	241813	240493
25°	190007	197318	192273
30°	131460	136202	130967
35°	73796	86899	75309
40°	31868	46993	31868
45°	12275	18742	12275
50°	4521	6450	3858
55°	743	2162	1419
60°	0	0	0
65°	0	0	0
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: 18742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	12.0
10°-20°	187.3	31.3
20°-30°	204.1	34.1
30°-40°	108.1	18.1
40°-50°	24.4	4.1
50°-60°	2.5	0.4
60°-70°	0.0	0.0
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°	463.4	77.4
0°-40°	571.4	95.5
0°-60°	598.3	100.0
0°-90°	598.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	598.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	765	763	764	763	763	72
15°	672	672	676	673	674	187
25°	444	457	462	457	450	201
35°	156	172	184	171	159	100
45°	22	26	34	26	22	21
55°	1	2	3	2	2	2
65°	0	0	0	0	0	0
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°	770.2	770.2	770.2	770.2	770.2
2.5°	770.2	769.1	770.2	769.1	768.0
5°	764.8	762.7	763.8	762.7	762.7
7.5°	750.9	750.9	752.0	752.0	750.9
10°	732.8	734.9	736.0	734.9	733.9
12.5°	707.2	705.0	709.3	707.2	703.9
15°	671.9	671.9	676.2	673.0	674.0
17.5°	629.2	634.5	636.6	632.4	632.4
20°	577.9	583.2	586.4	586.4	583.2
22.5°	520.2	528.8	527.7	527.7	521.3
25°	444.4	457.2	461.5	457.2	449.7
27.5°	371.7	370.7	381.3	376.0	369.6
30°	293.8	299.1	304.4	300.2	292.7
32.5°	227.5	236.1	241.4	233.9	229.7
35°	156.0	172.0	183.7	170.9	159.2
37.5°	96.1	111.1	132.5	113.2	99.3
40°	63.0	69.4	92.9	70.5	63.0
42.5°	39.5	43.8	59.8	43.8	39.5
45°	22.4	25.6	34.2	25.6	22.4
47.5°	12.8	13.9	18.2	13.9	11.8
50°	7.5	8.5	10.7	7.5	6.4
52.5°	3.2	4.3	5.3	4.3	3.2
55°	1.1	2.1	3.2	2.1	2.1
57.5°	0.0	1.1	1.1	1.1	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
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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