

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: P886414

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMB-550LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-103)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMB-550LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

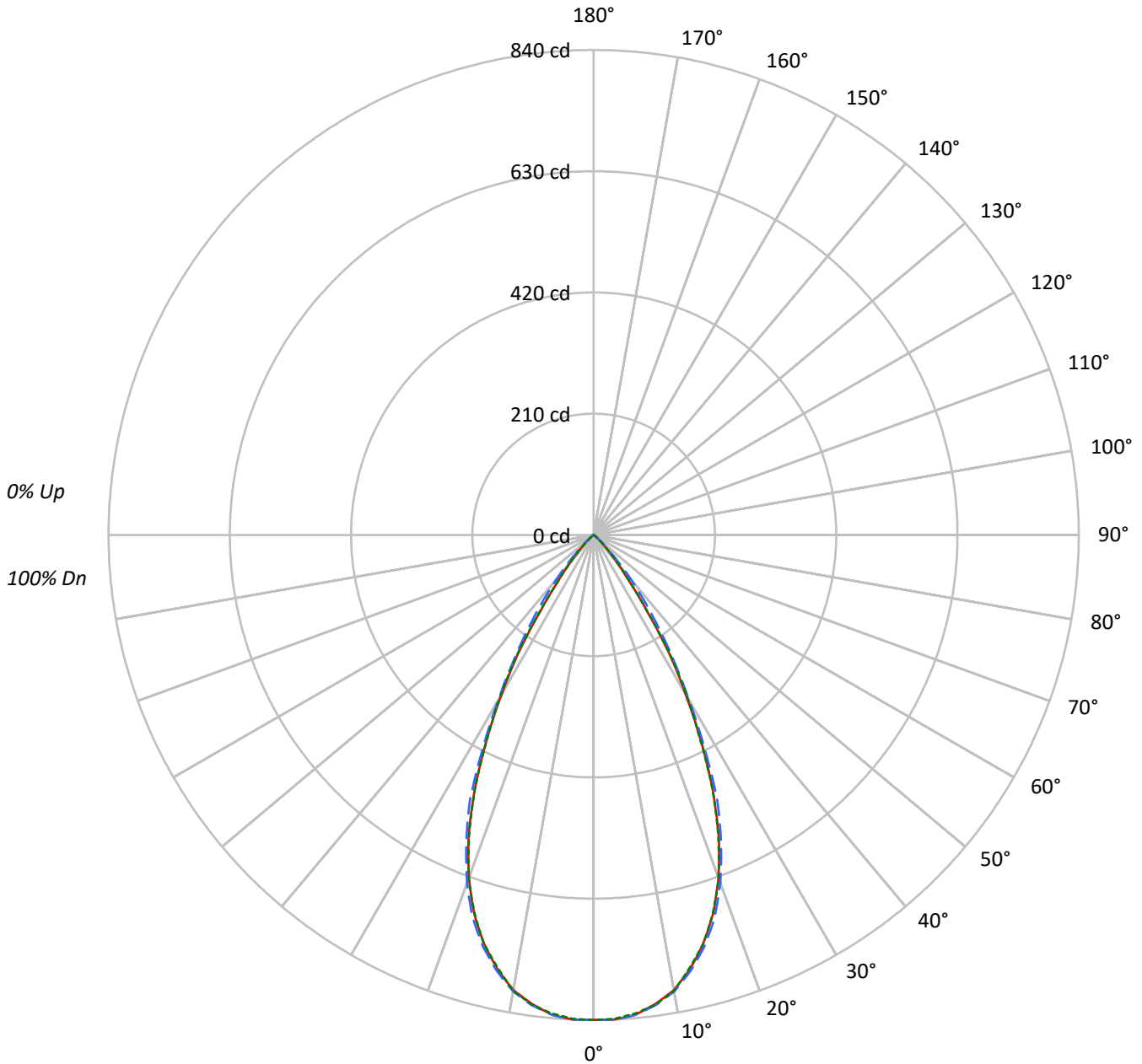
Lumens per Lamp: N/A
Luminaire Lumens: 647.9 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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										
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	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88	88	88	88	88	88		
	3	104	97	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83	83	83	83	83	83		
	4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78	78	78	78	78	78		
	5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73	73	73	73	73	73		
	6	90	81	76	72	88	80	75	71	79	74	71	78	73	70	76	73	70	68	68	68	68	68	68		
	7	85	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	64	64	64	64	64	64		
	8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57	57	57	57	57	57		
	10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54	54	54	54	54	54		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	325538	325538	325538
5°	324526	324526	323592
10°	315018	315923	315451
15°	294137	296464	294137
20°	260658	264493	260658
25°	208648	216601	208178
30°	142467	147657	144525
35°	75830	92907	77485
40°	33487	50534	34094
45°	12714	18468	12714
50°	3496	6330	4220
55°	811	2365	811
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: 18468 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	12.1
10°-20°	204.5	31.6
20°-30°	222.0	34.3
30°-40°	115.3	17.8
40°-50°	25.2	3.9
50°-60°	2.4	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°	505.0	78.0
0°-40°	620.3	95.7
0°-60°	647.9	100.0
0°-90°	647.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	834	833	834	833	832	78
15°	733	736	739	734	733	204
25°	488	492	507	490	487	219
35°	160	180	196	184	164	106
45°	23	26	34	26	23	21
55°	1	2	4	1	1	1
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°	840.1	840.1	840.1	840.1	840.1
2.5°	840.1	838.9	840.1	840.1	838.9
5°	834.3	833.1	834.3	833.1	831.9
7.5°	819.2	820.3	821.5	820.3	820.3
10°	800.6	801.7	802.9	801.7	801.7
12.5°	770.4	772.7	773.9	772.7	768.0
15°	733.2	735.5	739.0	734.3	733.2
17.5°	687.9	693.7	696.0	691.4	686.7
20°	632.1	637.9	641.4	637.9	632.1
22.5°	565.9	574.0	576.3	572.8	563.5
25°	488.0	491.5	506.6	490.3	486.9
27.5°	402.0	407.8	414.8	409.0	399.7
30°	318.4	324.2	330.0	326.5	323.0
32.5°	242.8	256.8	258.0	253.3	247.5
35°	160.3	180.1	196.4	183.6	163.8
37.5°	101.1	113.9	142.9	115.0	102.3
40°	66.2	72.0	99.9	73.2	67.4
42.5°	41.8	46.5	61.6	45.3	41.8
45°	23.2	25.6	33.7	25.6	23.2
47.5°	11.6	13.9	19.8	13.9	12.8
50°	5.8	8.1	10.5	8.1	7.0
52.5°	2.3	4.6	5.8	4.6	3.5
55°	1.2	2.3	3.5	1.2	1.2
57.5°	0.0	0.0	1.2	0.0	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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