

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: P886429

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMWB-550LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-104)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMWB-550LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

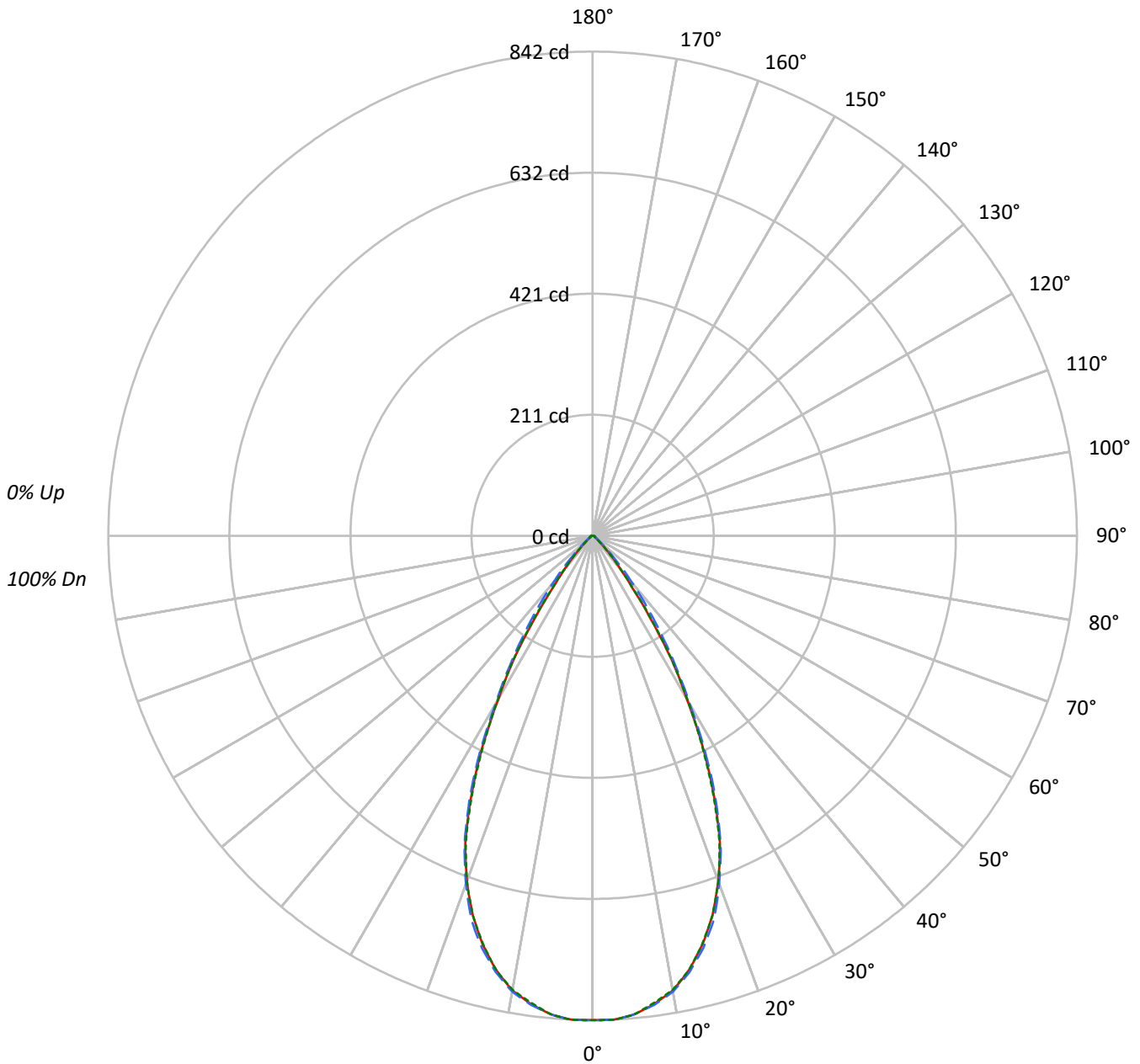
Lumens per Lamp: N/A
Luminaire Lumens: 680.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	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			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94					94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76					76			
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71					71			
6	88	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67					67			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63					63			
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59					59			
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56					56			
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53					53			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	326429	326429	326429
5°	324954	324954	324954
10°	315923	316828	315451
15°	295501	297868	295060
20°	263503	265441	263503
25°	213608	216601	212112
30°	146628	150744	147657
35°	81885	97306	85764
40°	37635	54682	38191
45°	16550	24825	16550
50°	7716	11213	7716
55°	4729	6283	4729
60°	3565	4495	3565
65°	4218	4218	4218
70°	3965	3965	3965
75°	3444	3444	3444
80°	5132	5132	5132
85°	5335	5335	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 24825 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	11.6
10°-20°	205.5	30.2
20°-30°	225.8	33.2
30°-40°	122.1	18.0
40°-50°	31.7	4.7
50°-60°	7.9	1.2
60°-70°	4.5	0.7
70°-80°	2.9	0.4
80°-90°	1.0	0.1
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°	510.0	75.0
0°-40°	632.1	93.0
0°-60°	671.7	98.8
0°-90°	680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	835	834	835	834	835	79
15°	737	740	742	737	736	205
25°	500	503	507	504	496	225
35°	173	196	206	195	181	113
45°	30	34	45	35	30	27
55°	7	8	9	8	7	7
65°	5	5	5	5	5	4
75°	2	2	2	2	2	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.4	842.4	842.4	842.4	842.4
2.5°	842.4	842.4	842.4	841.2	842.4
5°	835.4	834.2	835.4	834.2	835.4
7.5°	821.5	822.6	822.6	822.6	819.1
10°	802.9	802.9	805.2	802.9	801.7
12.5°	773.8	776.1	777.3	772.7	773.8
15°	736.6	740.1	742.5	736.6	735.5
17.5°	692.5	694.8	700.6	697.1	692.5
20°	639.0	643.7	643.7	641.4	639.0
22.5°	578.6	582.1	582.1	579.8	576.3
25°	499.6	503.1	506.6	504.3	496.1
27.5°	416.0	414.8	424.1	418.3	412.5
30°	327.7	332.3	336.9	332.3	330.0
32.5°	255.6	262.6	268.4	263.8	257.9
35°	173.1	196.4	205.7	195.2	181.3
37.5°	111.5	130.1	151.0	130.1	113.9
40°	74.4	81.3	108.1	83.7	75.5
42.5°	50.0	54.6	72.0	55.8	51.1
45°	30.2	33.7	45.3	34.9	30.2
47.5°	18.6	20.9	27.9	20.9	18.6
50°	12.8	15.1	18.6	15.1	12.8
52.5°	9.3	10.5	12.8	10.5	9.3
55°	7.0	8.1	9.3	8.1	7.0
57.5°	5.8	5.8	7.0	5.8	5.8
60°	4.6	5.8	5.8	5.8	4.6
62.5°	4.6	4.6	4.6	4.6	4.6
65°	4.6	4.6	4.6	4.6	4.6
67.5°	3.5	4.6	4.6	4.6	3.5
70°	3.5	3.5	3.5	3.5	3.5
72.5°	3.5	3.5	3.5	3.5	3.5
75°	2.3	2.3	2.3	2.3	2.3
77.5°	2.3	2.3	2.3	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2
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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