

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: P886356

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDMBB-550LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-100)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2SDMBB-550LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

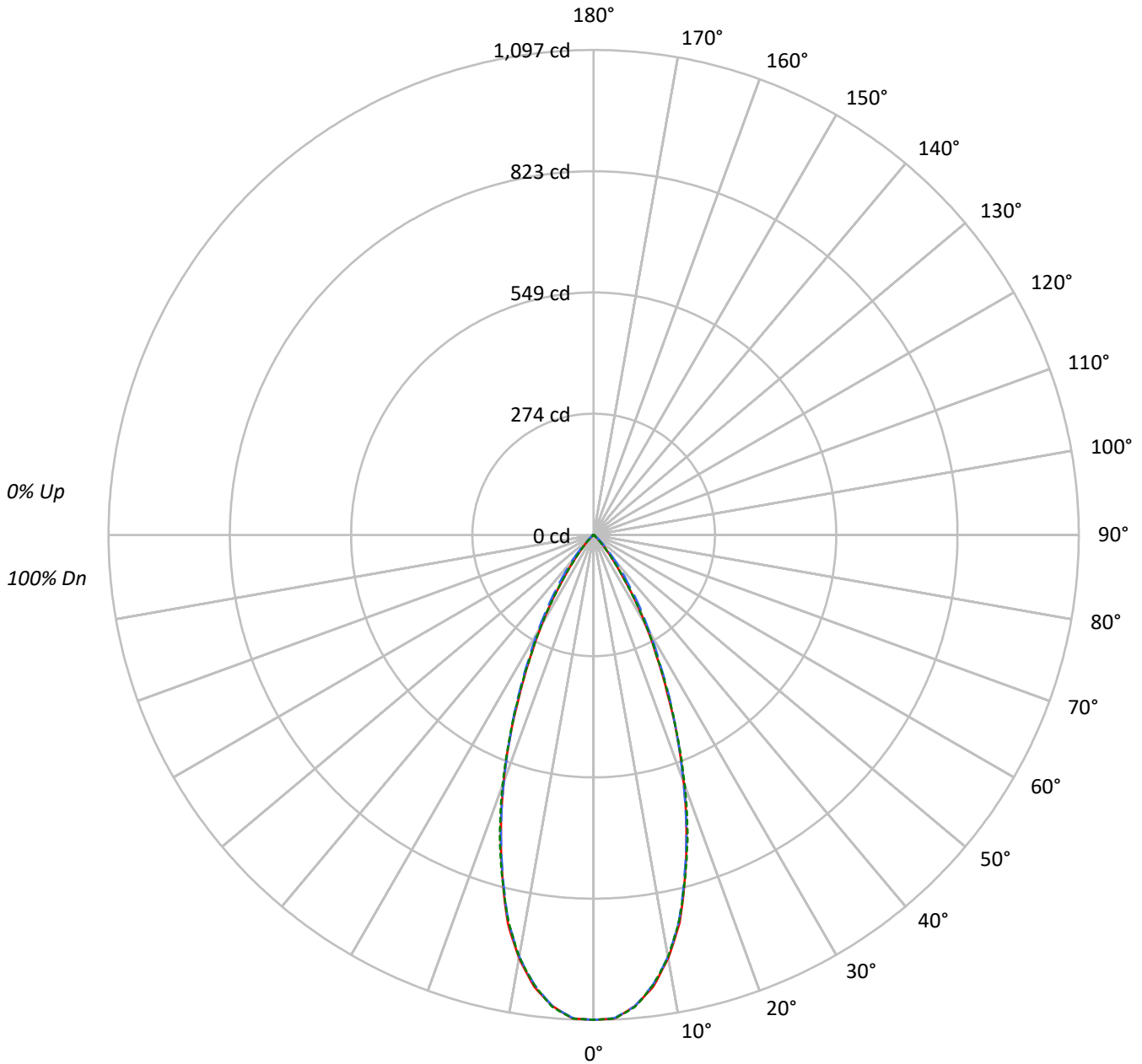
Lumens per Lamp: N/A
Luminaire Lumens: 605.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	425009	425009	425009
5°	416169	416169	416986
10°	382342	381122	381515
15°	320133	318889	320975
20°	245524	244699	248081
25°	167945	172391	170168
30°	105463	112398	106403
35°	53313	66984	53786
40°	24078	35561	23522
45°	8494	15289	7946
50°	1869	6209	2472
55°	676	1419	676
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: 15289 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	16.3
10°-20°	219.4	36.3
20°-30°	183.8	30.4
30°-40°	82.9	13.7
40°-50°	18.5	3.0
50°-60°	1.6	0.3
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°	502.1	83.0
0°-40°	585.0	96.7
0°-60°	605.0	100.0
0°-90°	605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1097	1097	1097	1097	1097	
5°	1070	1070	1070	1069	1072	99
15°	798	797	795	801	800	220
25°	393	401	403	400	398	181
35°	113	128	142	126	114	76
45°	16	21	28	20	14	14
55°	1	1	2	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°	1096.8	1096.8	1096.8	1096.8	1096.8
2.5°	1094.7	1094.7	1093.7	1093.7	1094.7
5°	1069.9	1069.9	1069.9	1068.9	1072.0
7.5°	1030.6	1029.6	1026.5	1026.5	1027.5
10°	971.7	969.6	968.6	971.7	969.6
12.5°	898.3	895.2	893.1	894.2	893.1
15°	798.0	797.0	794.9	801.1	800.1
17.5°	697.8	694.7	697.8	696.7	706.0
20°	595.4	598.5	593.4	597.5	601.6
22.5°	494.1	498.3	494.1	495.2	496.2
25°	392.8	401.1	403.2	400.1	398.0
27.5°	308.1	315.3	319.4	315.3	309.1
30°	235.7	238.8	251.2	241.9	237.8
32.5°	171.6	183.0	192.3	183.0	170.6
35°	112.7	128.2	141.6	126.1	113.7
37.5°	72.4	81.7	101.3	82.7	71.3
40°	47.6	51.7	70.3	52.7	46.5
42.5°	30.0	35.1	45.5	34.1	28.9
45°	15.5	20.7	27.9	19.6	14.5
47.5°	5.2	9.3	17.6	10.3	6.2
50°	3.1	4.1	10.3	4.1	4.1
52.5°	2.1	2.1	4.1	2.1	2.1
55°	1.0	1.0	2.1	1.0	1.0
57.5°	0.0	0.0	1.0	1.0	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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