

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: P886355

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDMBB-550LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886355
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-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

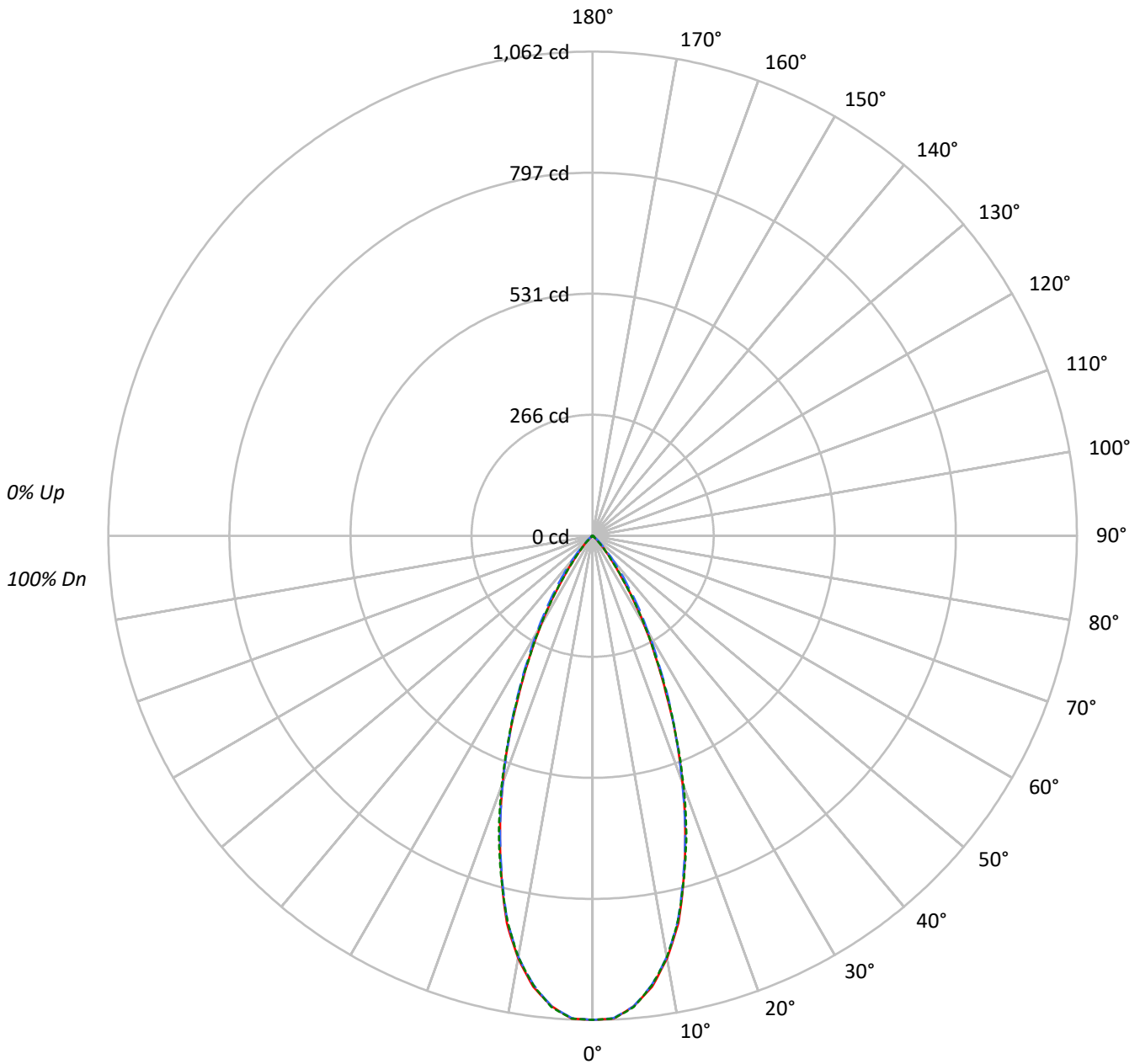
Lumens per Lamp: N/A
Luminaire Lumens: 585.7 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	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°	411447	411447	411447
5°	402866	402866	403644
10°	370144	368964	369357
15°	309943	308740	310745
20°	237689	236864	240163
25°	162600	166876	164738
30°	102107	108819	103002
35°	51610	64855	52083
40°	23269	34397	22763
45°	8220	14796	7672
50°	1809	6028	2411
55°	676	1351	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: 14796 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	16.3
10°-20°	212.4	36.3
20°-30°	177.9	30.4
30°-40°	80.3	13.7
40°-50°	17.9	3.0
50°-60°	1.5	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°	486.1	83.0
0°-40°	566.3	96.7
0°-60°	585.7	100.0
0°-90°	585.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	585.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1036	1036	1036	1035	1038	96
15°	773	772	770	776	775	213
25°	380	388	390	387	385	176
35°	109	124	137	122	110	73
45°	15	20	27	19	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°	1061.8	1061.8	1061.8	1061.8	1061.8
2.5°	1059.8	1059.8	1058.8	1058.8	1059.8
5°	1035.7	1035.7	1035.7	1034.7	1037.7
7.5°	997.7	996.7	993.7	993.7	994.7
10°	940.7	938.7	937.7	940.7	938.7
12.5°	869.6	866.6	864.6	865.6	864.6
15°	772.6	771.6	769.6	775.6	774.6
17.5°	675.5	672.5	675.5	674.5	683.5
20°	576.4	579.4	574.4	578.4	582.4
22.5°	478.3	482.3	478.3	479.3	480.3
25°	380.3	388.3	390.3	387.3	385.3
27.5°	298.2	305.2	309.2	305.2	299.2
30°	228.2	231.2	243.2	234.2	230.2
32.5°	166.1	177.1	186.1	177.1	165.1
35°	109.1	124.1	137.1	122.1	110.1
37.5°	70.1	79.1	98.1	80.1	69.0
40°	46.0	50.0	68.0	51.0	45.0
42.5°	29.0	34.0	44.0	33.0	28.0
45°	15.0	20.0	27.0	19.0	14.0
47.5°	5.0	9.0	17.0	10.0	6.0
50°	3.0	4.0	10.0	4.0	4.0
52.5°	2.0	2.0	4.0	2.0	2.0
55°	1.0	1.0	2.0	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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