

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: P886305

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMWB-550LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-92)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMWB-550LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

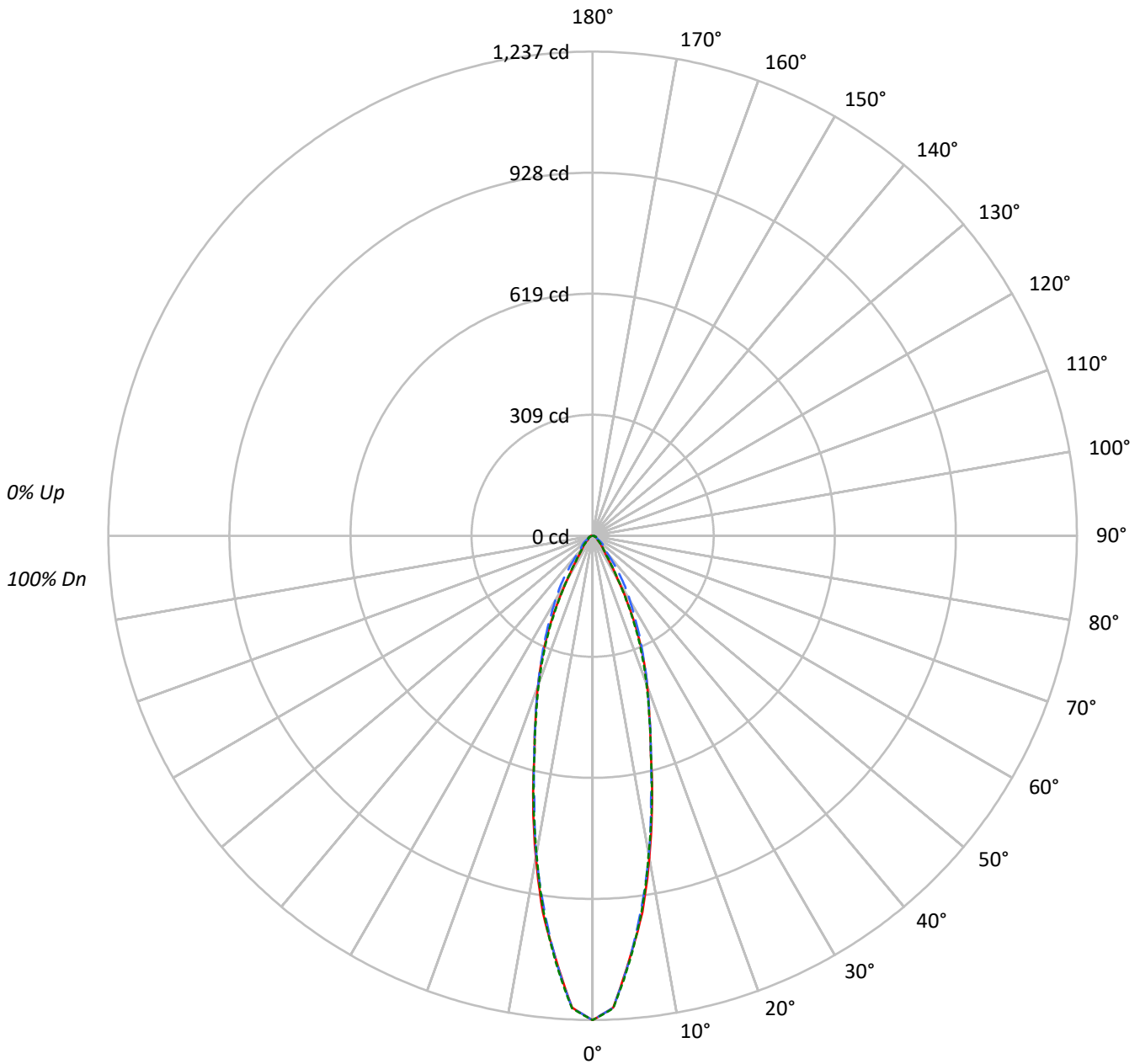
Lumens per Lamp: N/A
Luminaire Lumens: 495.2 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.46 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93	93	93	93	93	93		
	2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87	87	87	87	87	87		
	3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82	82	82	82	82	82		
	4	98	91	86	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72	72	72	72	72	72		
	6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69	69	69	69	69	69		
	7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65	65	65	65	65	65		
	8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62	62	62	62	62	62		
	9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59	59	59	59	59	59		
	10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57	57	57	57	57	57		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	479453	479453	479453
5°	421420	422587	424143
10°	328396	326035	324461
15°	229749	230552	229749
20°	168164	168164	165277
25°	114543	121341	110695
30°	57228	84523	59018
35°	27910	55299	29329
40°	19728	29845	20234
45°	15892	21372	14796
50°	9645	19291	9645
55°	9458	12161	9458
60°	9300	9300	9300
65°	9169	9169	9169
70°	7931	9064	9064
75°	8983	8983	8983
80°	8926	6695	8926
85°	8892	4446	8892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 21372 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	19.3
10°-20°	161.6	32.6
20°-30°	124.8	25.2
30°-40°	55.5	11.2
40°-50°	25.5	5.2
50°-60°	14.1	2.8
60°-70°	9.9	2.0
70°-80°	6.2	1.2
80°-90°	1.9	0.4
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°	382.1	77.1
0°-40°	437.6	88.4
0°-60°	477.2	96.4
0°-90°	495.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	495.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1083	1087	1086	1088	1090	96
15°	573	576	575	576	573	162
25°	268	280	284	274	259	120
35°	59	76	117	78	62	42
45°	29	33	39	32	27	21
55°	14	14	18	14	14	13
65°	10	10	10	10	10	10
75°	6	6	6	6	6	6
85°	2	2	1	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.3	1237.3	1237.3	1237.3	1237.3
2.5°	1206.4	1205.4	1206.4	1208.4	1208.4
5°	1083.4	1087.4	1086.4	1088.4	1090.4
7.5°	971.5	962.5	956.5	958.5	964.5
10°	834.6	823.6	828.6	825.6	824.6
12.5°	701.6	690.6	688.6	691.6	697.6
15°	572.7	575.7	574.7	575.7	572.7
17.5°	482.7	481.7	482.7	482.7	479.7
20°	407.8	404.8	407.8	405.8	400.8
22.5°	337.8	341.8	339.8	340.8	328.8
25°	267.9	279.9	283.8	273.9	258.9
27.5°	193.9	215.9	229.9	210.9	187.9
30°	127.9	156.9	188.9	153.9	131.9
32.5°	87.0	107.9	153.9	109.9	89.0
35°	59.0	76.0	116.9	78.0	62.0
37.5°	47.0	57.0	84.0	58.0	48.0
40°	39.0	46.0	59.0	46.0	40.0
42.5°	34.0	38.0	45.0	38.0	35.0
45°	29.0	33.0	39.0	32.0	27.0
47.5°	21.0	26.0	35.0	25.0	22.0
50°	16.0	18.0	32.0	20.0	16.0
52.5°	15.0	15.0	26.0	15.0	15.0
55°	14.0	14.0	18.0	14.0	14.0
57.5°	13.0	13.0	14.0	14.0	13.0
60°	12.0	12.0	12.0	13.0	12.0
62.5°	11.0	11.0	11.0	11.0	11.0
65°	10.0	10.0	10.0	10.0	10.0
67.5°	9.0	9.0	9.0	9.0	9.0
70°	7.0	8.0	8.0	8.0	8.0
72.5°	6.0	7.0	7.0	7.0	6.0
75°	6.0	6.0	6.0	6.0	6.0
77.5°	5.0	5.0	5.0	5.0	4.0
80°	4.0	4.0	3.0	4.0	4.0
82.5°	2.0	3.0	2.0	3.0	2.0
85°	2.0	2.0	1.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0
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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