

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: P886292

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMB-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMB-550LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

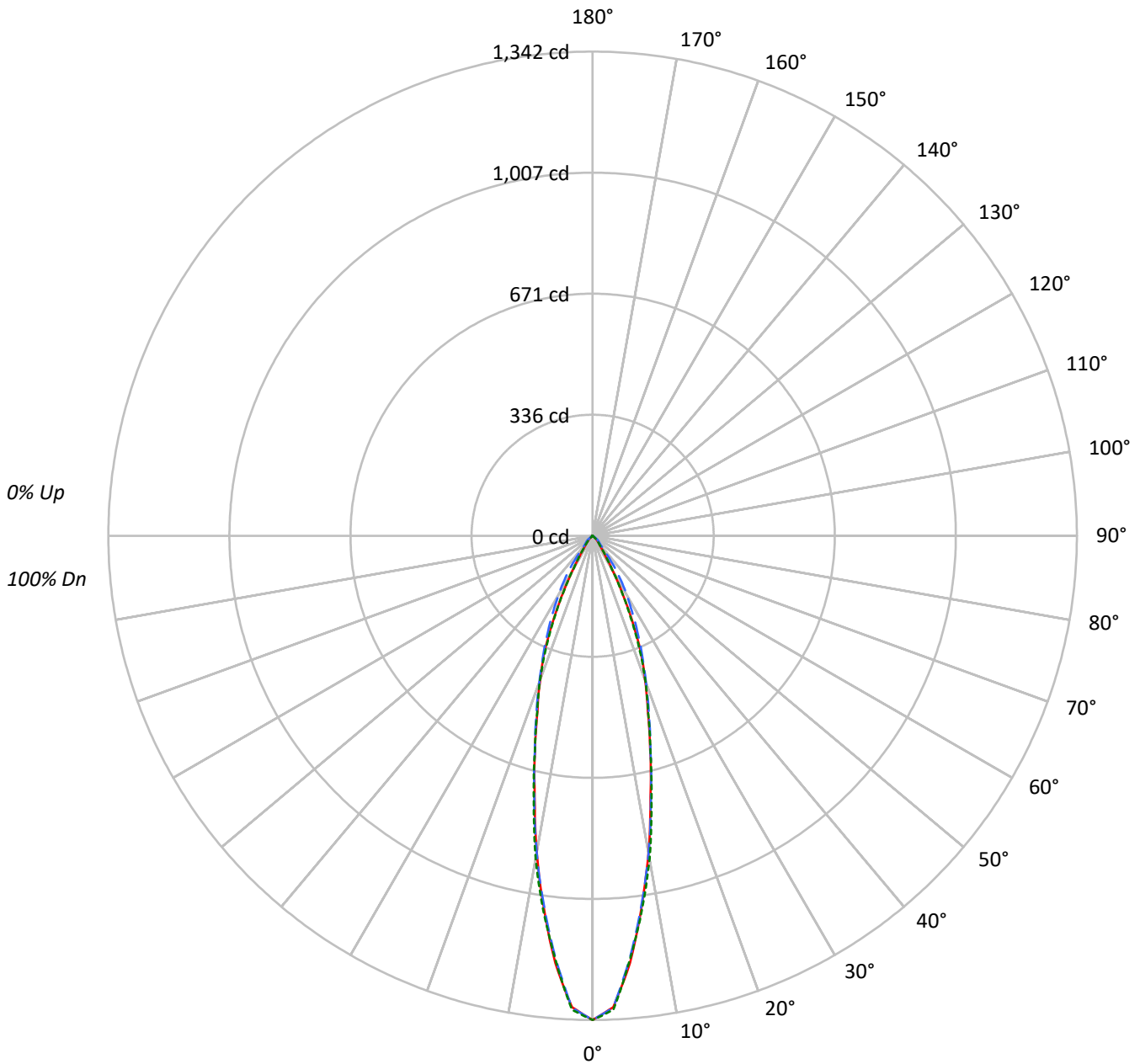
Lumens per Lamp: N/A
Luminaire Lumens: 462.5 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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									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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91																			
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	97	90	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78																			
6	94	86	81	78	92	86	81	77	84	80	77	83	79	76	82	78	76	75																			
7	90	82	77	74	89	82	77	74	81	76	73	80	76	73	79	75	73	72																			
8	87	79	74	71	86	78	74	70	77	73	70	77	73	70	76	72	70	69																			
9	84	76	71	68	83	75	71	67	74	70	67	74	70	67	73	69	67	66																			
10	81	73	68	65	80	72	68	65	72	67	65	71	67	64	70	67	64	63																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	520024	520024	520024
5°	462575	457596	459268
10°	350628	351493	357789
15°	247321	248604	248203
20°	175380	177566	175793
25°	109626	125189	106462
30°	48772	84612	47787
35°	20720	49008	21713
40°	12444	19475	12444
45°	7014	13481	5864
50°	663	10309	663
55°	0	2162	743
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: 13481 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	22.4
10°-20°	173.1	37.4
20°-30°	125.6	27.2
30°-40°	45.2	9.8
40°-50°	13.2	2.9
50°-60°	1.6	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°	402.5	87.0
0°-40°	447.7	96.8
0°-60°	462.5	100.0
0°-90°	462.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	462.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1189	1179	1176	1186	1181	104
15°	616	616	620	612	619	172
25°	256	283	293	275	249	117
35°	44	60	104	60	46	32
45°	13	17	25	17	11	9
55°	0	1	3	1	1	0
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.0	1342.0	1342.0	1342.0	1342.0
2.5°	1307.8	1304.6	1308.9	1310.0	1315.3
5°	1189.2	1178.6	1176.4	1186.0	1180.7
7.5°	1038.6	1039.7	1034.3	1046.1	1047.1
10°	891.1	892.2	893.3	897.5	909.3
12.5°	741.5	744.7	745.8	743.7	753.3
15°	616.5	616.5	619.7	612.3	618.7
17.5°	508.6	512.9	518.2	511.8	510.7
20°	425.3	428.5	430.6	429.5	426.3
22.5°	349.4	355.8	357.9	349.4	337.6
25°	256.4	283.2	292.8	274.6	249.0
27.5°	174.2	210.5	235.1	203.0	172.0
30°	109.0	140.0	189.1	140.0	106.8
32.5°	66.2	87.6	145.3	90.8	69.5
35°	43.8	59.8	103.6	59.8	45.9
37.5°	32.1	41.7	60.9	41.7	33.1
40°	24.6	28.8	38.5	29.9	24.6
42.5°	19.2	22.4	28.8	22.4	18.2
45°	12.8	17.1	24.6	17.1	10.7
47.5°	2.1	9.6	21.4	8.5	5.3
50°	1.1	1.1	17.1	3.2	1.1
52.5°	1.1	1.1	9.6	1.1	1.1
55°	0.0	1.1	3.2	1.1	1.1
57.5°	0.0	0.0	0.0	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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