

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: P886168

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMBB-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886168
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: ML204LSFL95FS1E-TIR1D40FL-TL2SDMBB-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

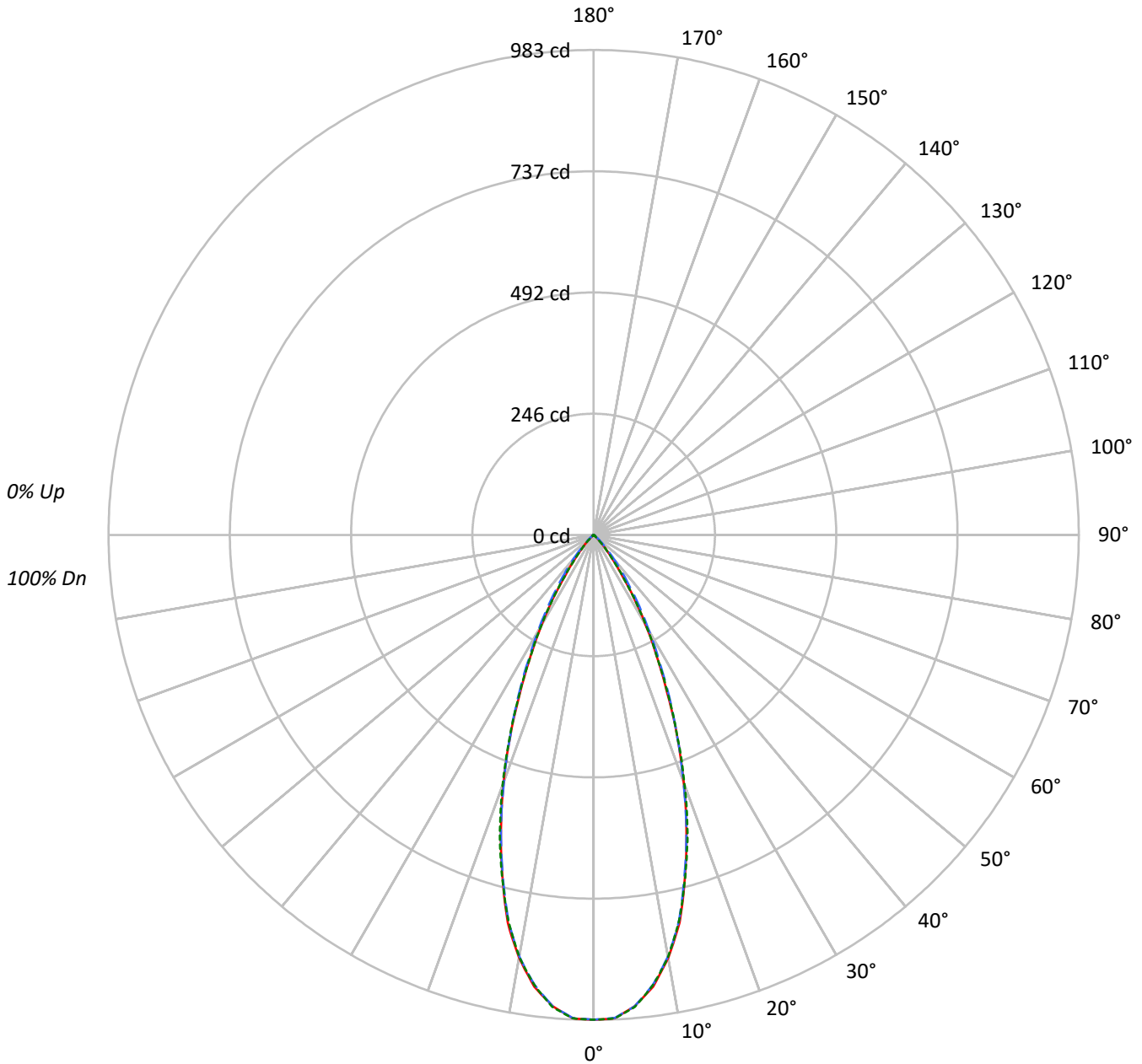
Lumens per Lamp: N/A
Luminaire Lumens: 542.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95	95	95	95	95	95		
	2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90	90	90	90	90	90		
	3	105	99	94	91	103	97	93	90	95	92	89	93	90	87	90	88	86	85	85	85	85	85	85		
	4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80	80	80	80	80	80		
	5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76	76	76	76	76	76		
	6	92	84	79	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72	72	72	72	72	72		
	7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68	68	68		
	8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65	65	65		
	9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62	62	62		
	10	78	69	64	61	77	69	64	60	68	63	60	67	63	60	67	63	60	59	59	59	59	59	59		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	380757	380757	380757
5°	372837	372837	373537
10°	342522	341420	341814
15°	286796	285712	287558
20°	219957	219215	222266
25°	150458	154434	152425
30°	94456	100675	95306
35°	47731	60030	48204
40°	21549	31868	21094
45°	7617	13700	7124
50°	1688	5606	2231
55°	608	1284	608
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: 13700 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	16.3
10°-20°	196.6	36.3
20°-30°	164.6	30.4
30°-40°	74.3	13.7
40°-50°	16.5	3.1
50°-60°	1.4	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°	449.8	83.0
0°-40°	524.1	96.7
0°-60°	542.0	100.0
0°-90°	542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	958	958	958	958	960	89
15°	715	714	712	718	717	197
25°	352	359	361	358	356	163
35°	101	115	127	113	102	68
45°	14	18	25	18	13	13
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°	982.6	982.6	982.6	982.6	982.6
2.5°	980.7	980.7	979.8	979.8	980.7
5°	958.5	958.5	958.5	957.6	960.3
7.5°	923.3	922.4	919.6	919.6	920.5
10°	870.5	868.7	867.7	870.5	868.7
12.5°	804.8	802.0	800.1	801.1	800.1
15°	714.9	714.0	712.2	717.7	716.8
17.5°	625.1	622.3	625.1	624.2	632.5
20°	533.4	536.2	531.6	535.3	539.0
22.5°	442.7	446.4	442.7	443.6	444.5
25°	351.9	359.3	361.2	358.4	356.5
27.5°	276.0	282.5	286.2	282.5	276.9
30°	211.1	213.9	225.0	216.7	213.0
32.5°	153.7	163.9	172.2	163.9	152.8
35°	100.9	114.8	126.9	113.0	101.9
37.5°	64.8	73.2	90.8	74.1	63.9
40°	42.6	46.3	63.0	47.2	41.7
42.5°	26.9	31.5	40.7	30.6	25.9
45°	13.9	18.5	25.0	17.6	13.0
47.5°	4.6	8.3	15.7	9.3	5.6
50°	2.8	3.7	9.3	3.7	3.7
52.5°	1.9	1.9	3.7	1.9	1.9
55°	0.9	0.9	1.9	0.9	0.9
57.5°	0.0	0.0	0.9	0.9	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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