

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: P886050

Luminaire Tested: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMBB-200LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-153)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMBB-200LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

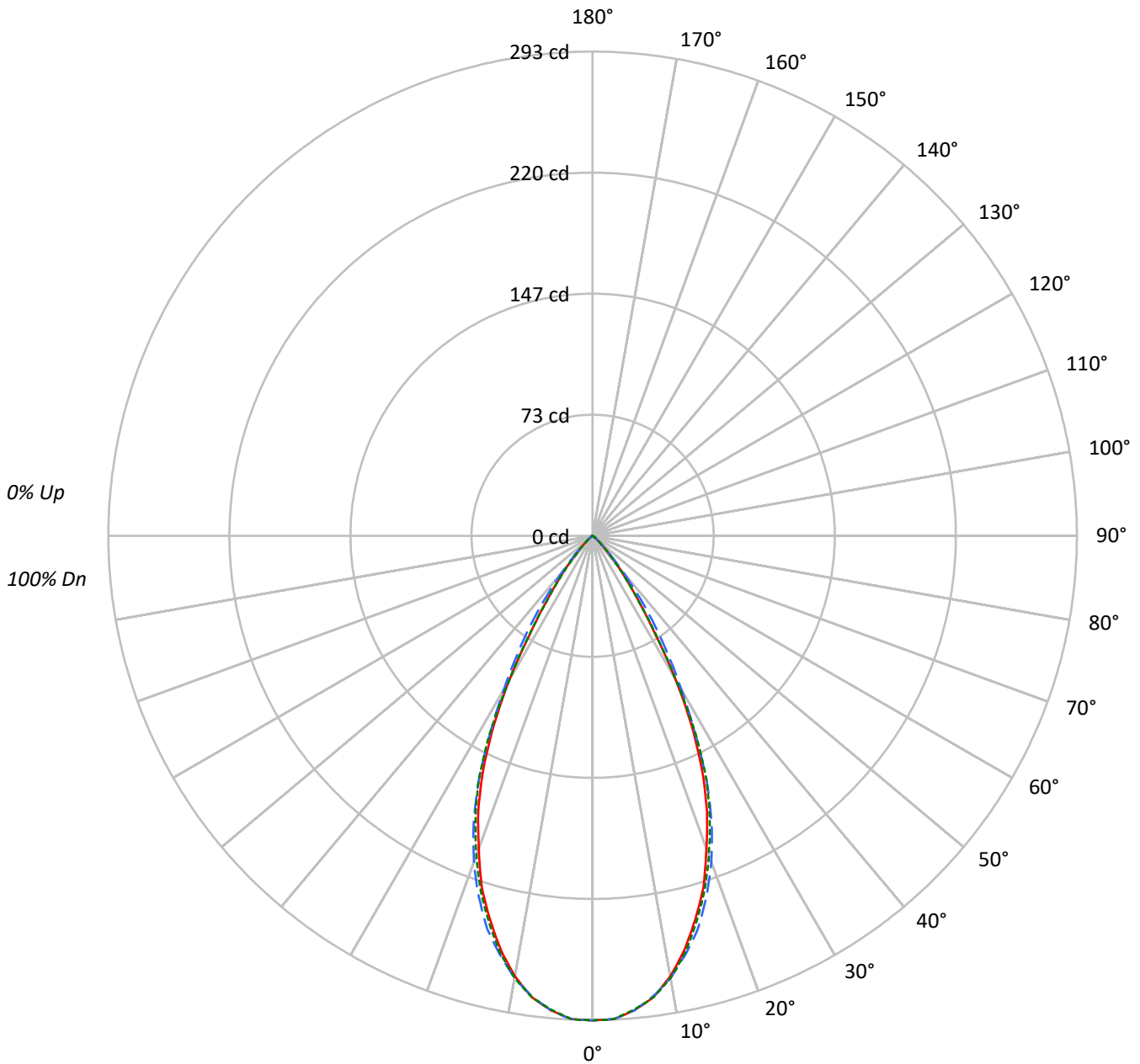
Lumens per Lamp: N/A
Luminaire Lumens: 211.9 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 3.2
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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	94	92	90	88								
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83								
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78								
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73								
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69								
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65								
8	82	73	67	63	81	72	67	63	71	67	63	70	66	63	69	66	63	61								
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58								
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	454620	454620	454620
5°	448577	448577	447799
10°	425905	427636	427636
15°	385287	395076	388818
20°	332043	346558	339301
25°	268339	278771	278771
30°	179696	191509	180591
35°	93286	120724	92340
40°	47145	56048	44920
45°	18194	21921	18194
50°	6752	6752	5305
55°	1621	2973	2973
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: 21921 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	12.7
10°-20°	67.6	31.9
20°-30°	72.2	34.1
30°-40°	36.0	17.0
40°-50°	8.1	3.8
50°-60°	1.0	0.5
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°	166.8	78.7
0°-40°	202.8	95.7
0°-60°	211.9	100.0
0°-90°	211.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	211.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	288	288	288	288	288	27
15°	240	242	246	244	242	67
25°	157	159	163	163	163	70
35°	49	53	64	54	49	33
45°	8	9	10	9	8	8
55°	1	1	1	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°	293.3	293.3	293.3	293.3	293.3
2.5°	292.8	292.8	292.8	292.8	292.8
5°	288.3	288.3	288.3	288.3	287.8
7.5°	281.7	281.7	281.1	281.1	281.7
10°	270.6	271.1	271.7	271.7	271.7
12.5°	256.7	257.3	259.5	258.9	258.4
15°	240.1	242.3	246.2	244.5	242.3
17.5°	222.9	225.1	229.0	227.9	225.1
20°	201.3	204.0	210.1	207.9	205.7
22.5°	180.8	183.5	188.0	188.0	185.2
25°	156.9	159.1	163.0	163.0	163.0
27.5°	129.7	133.1	133.6	136.4	134.7
30°	100.4	104.8	107.0	106.5	100.9
32.5°	70.4	77.6	84.3	80.4	72.1
35°	49.3	53.2	63.8	54.3	48.8
37.5°	33.8	35.5	44.4	35.5	33.3
40°	23.3	23.8	27.7	24.4	22.2
42.5°	14.4	15.5	17.2	15.0	13.9
45°	8.3	8.9	10.0	8.9	8.3
47.5°	4.4	5.0	5.5	5.0	4.4
50°	2.8	2.8	2.8	2.8	2.2
52.5°	1.7	1.7	1.7	1.7	1.7
55°	0.6	1.1	1.1	1.1	1.1
57.5°	0.0	0.6	0.6	0.6	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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