

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: P886051

Luminaire Tested: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMBB-200LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886051
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-4000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

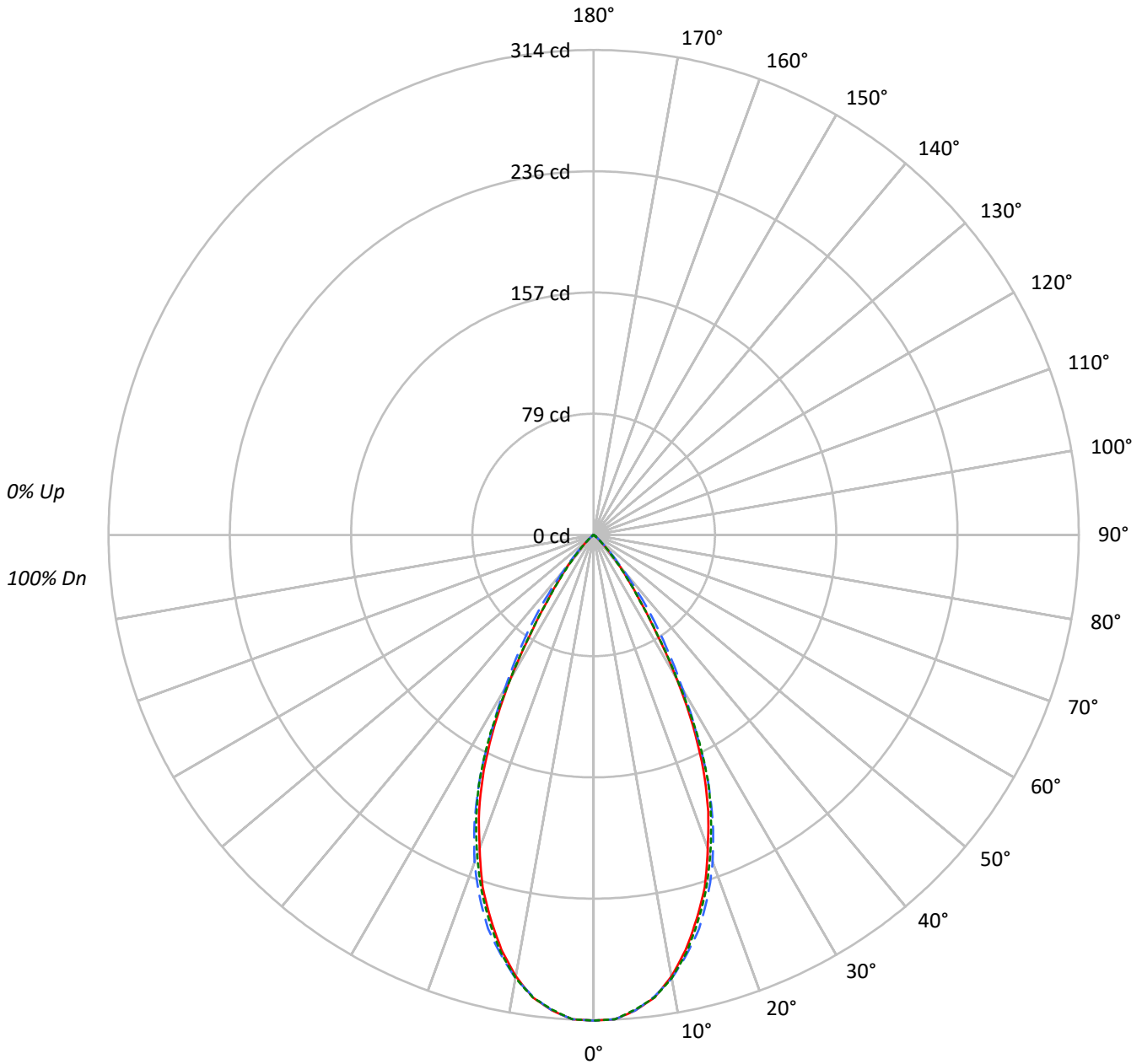
Lumens per Lamp: N/A
Luminaire Lumens: 227.2 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	94	92	90	88					88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83					83			
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78					78			
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73					73			
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69					69			
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65					65			
8	82	73	67	63	81	72	67	63	71	67	63	70	66	63	69	66	63	61					61			
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58					58			
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55					55			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	487480	487480	487480
5°	480940	480940	480007
10°	456596	458485	458485
15°	413048	423479	416900
20°	355961	371631	363713
25°	287665	298952	298952
30°	192583	205291	193657
35°	100098	129428	98963
40°	50585	60095	48157
45°	19509	23455	19509
50°	7234	7234	5787
55°	1621	3243	3243
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: 23455 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	12.7
10°-20°	72.5	31.9
20°-30°	77.5	34.1
30°-40°	38.6	17.0
40°-50°	8.7	3.8
50°-60°	1.1	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°	178.9	78.7
0°-40°	217.5	95.7
0°-60°	227.2	100.0
0°-90°	227.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	227.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	314	314	314	314	314	
5°	309	309	309	309	308	29
15°	257	260	264	262	260	72
25°	168	171	175	175	175	75
35°	53	57	68	58	52	35
45°	9	10	11	10	9	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°	314.5	314.5	314.5	314.5	314.5
2.5°	313.9	313.9	313.9	313.9	313.9
5°	309.1	309.1	309.1	309.1	308.5
7.5°	302.0	302.0	301.4	301.4	302.0
10°	290.1	290.7	291.3	291.3	291.3
12.5°	275.2	275.8	278.2	277.6	277.0
15°	257.4	259.8	263.9	262.2	259.8
17.5°	239.0	241.4	245.5	244.3	241.4
20°	215.8	218.8	225.3	222.9	220.5
22.5°	193.8	196.8	201.5	201.5	198.6
25°	168.2	170.6	174.8	174.8	174.8
27.5°	139.1	142.7	143.3	146.2	144.5
30°	107.6	112.4	114.7	114.1	108.2
32.5°	75.5	83.2	90.4	86.2	77.3
35°	52.9	57.1	68.4	58.3	52.3
37.5°	36.3	38.0	47.6	38.0	35.7
40°	25.0	25.6	29.7	26.2	23.8
42.5°	15.5	16.6	18.4	16.1	14.9
45°	8.9	9.5	10.7	9.5	8.9
47.5°	4.8	5.4	5.9	5.4	4.8
50°	3.0	3.0	3.0	3.0	2.4
52.5°	1.8	1.8	1.8	1.8	1.8
55°	0.6	1.2	1.2	1.2	1.2
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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