

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: P886059

Luminaire Tested: ML104LSFLD2W1E-TIR1D55WFL-TL1SDSLB-200LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-152)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D55WFL-TL1SDSLB-200LM-4000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

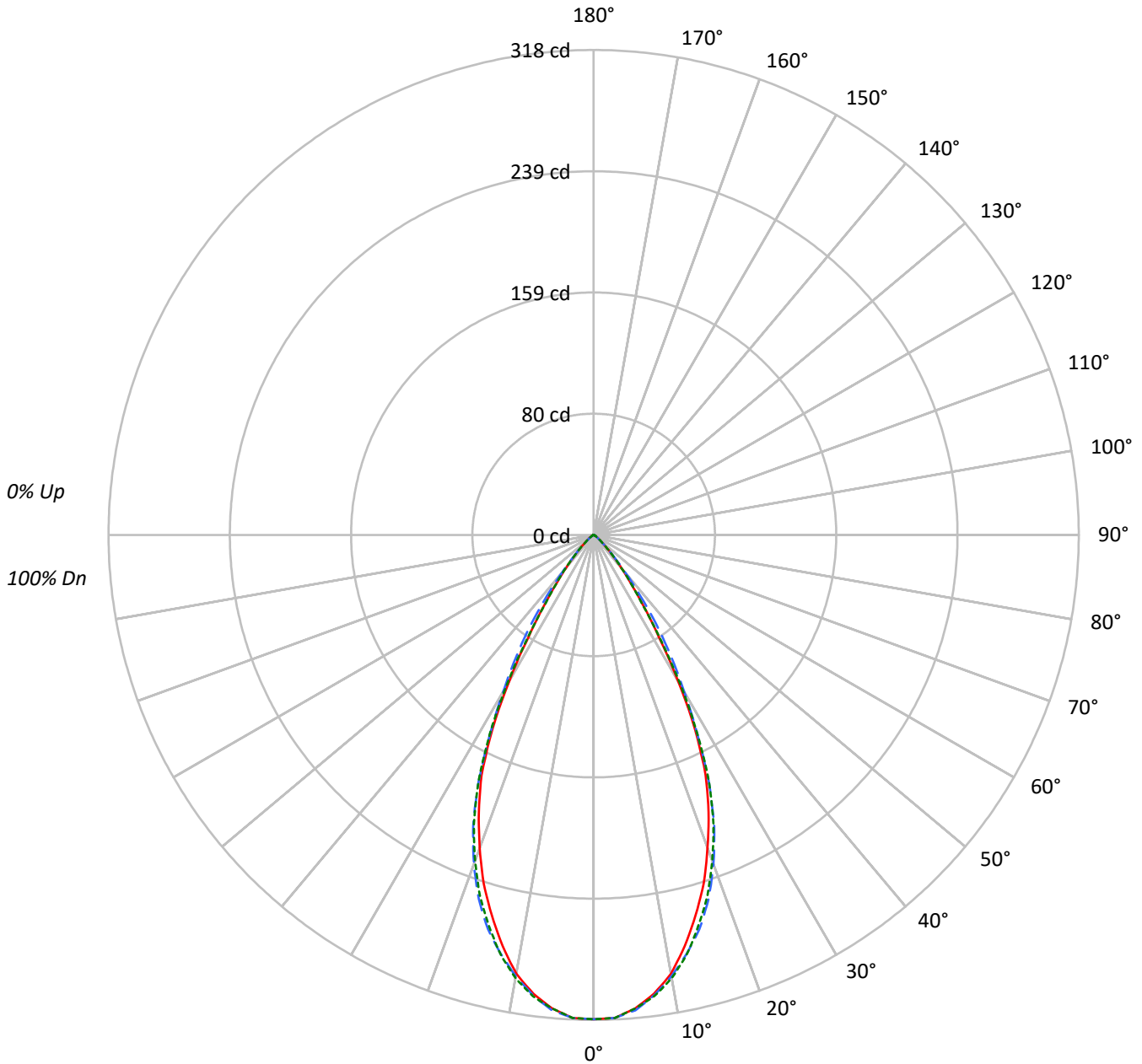
Lumens per Lamp: N/A
Luminaire Lumens: 236.9 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.84 / 0.81
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P886059
CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1SDSLB-200LM-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P886059

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1SDSLB-200LM-4000K

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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88																			
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	88	86	84	82																			
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77																			
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72																			
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68																			
7	85	76	70	66	84	76	70	66	74	69	66	73	69	66	72	68	65	64																			
8	81	72	66	62	80	72	66	62	70	66	62	69	65	62	69	65	62	60																			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	59	56	73	64	59	56	64	59	55	63	58	55	62	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	492285	492285	492285
5°	484986	486853	484986
10°	459744	462420	464309
15°	414332	429577	425726
20°	360084	378724	374765
25°	297071	305109	306135
30°	197952	211913	205470
35°	106910	135105	104640
40°	56655	64951	57869
45°	27401	28716	27401
50°	13022	11575	13022
55°	8107	4864	8107
60°	5580	1860	5580
65°	4401	2201	4401
70°	2719	0	2719
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 28716 cd/sqm



TEST NUMBER: P886059

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1SDSLB-200LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	12.3
10°-20°	73.5	31.0
20°-30°	79.5	33.6
30°-40°	40.7	17.2
40°-50°	10.7	4.5
50°-60°	2.4	1.0
60°-70°	0.8	0.3
70°-80°	0.1	0.1
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°	182.2	76.9
0°-40°	222.8	94.1
0°-60°	235.9	99.6
0°-90°	236.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	236.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	318	318	318	318	318	
5°	312	312	313	312	312	29
15°	258	262	268	266	265	72
25°	174	176	178	180	179	77
35°	56	60	71	62	55	38
45°	12	12	13	12	12	11
55°	3	2	2	2	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P886059

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1SDSLB-200LM-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	317.6	317.6	317.6	317.6	317.6
2.5°	317.0	317.0	317.0	317.0	317.0
5°	311.7	312.3	312.9	312.3	311.7
7.5°	303.4	303.4	304.5	305.1	305.1
10°	292.1	292.7	293.8	295.0	295.0
12.5°	276.0	279.0	281.3	280.8	281.9
15°	258.2	261.7	267.7	265.9	265.3
17.5°	239.7	243.9	250.4	248.6	248.0
20°	218.3	223.1	229.6	227.8	227.2
22.5°	196.9	201.0	206.4	206.4	205.2
25°	173.7	175.5	178.4	180.2	179.0
27.5°	143.9	148.1	146.9	149.9	147.5
30°	110.6	115.4	118.4	117.8	114.8
32.5°	80.3	86.2	94.0	88.6	82.1
35°	56.5	60.1	71.4	61.9	55.3
37.5°	39.9	41.6	50.0	41.0	39.9
40°	28.0	28.6	32.1	28.6	28.6
42.5°	19.0	19.0	20.2	19.0	19.0
45°	12.5	11.9	13.1	11.9	12.5
47.5°	8.3	7.7	7.7	7.7	7.7
50°	5.4	5.4	4.8	4.8	5.4
52.5°	4.2	3.6	3.0	3.6	3.6
55°	3.0	2.4	1.8	2.4	3.0
57.5°	1.8	1.8	1.2	1.8	1.8
60°	1.8	1.2	0.6	1.2	1.8
62.5°	1.2	1.2	0.6	1.2	1.2
65°	1.2	0.6	0.6	0.6	1.2
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.0	0.6	0.6
72.5°	0.6	0.6	0.0	0.0	0.6
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)