

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: P886791

Luminaire Tested: ML310LSFLD2W1E-TIR4D25NFL-TL3SDMB-600LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D25NFL-TL3SDMB-600LM-3000K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 696.6 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 0.5 / 0.49 / 0.52
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')

CIE Type: Direct

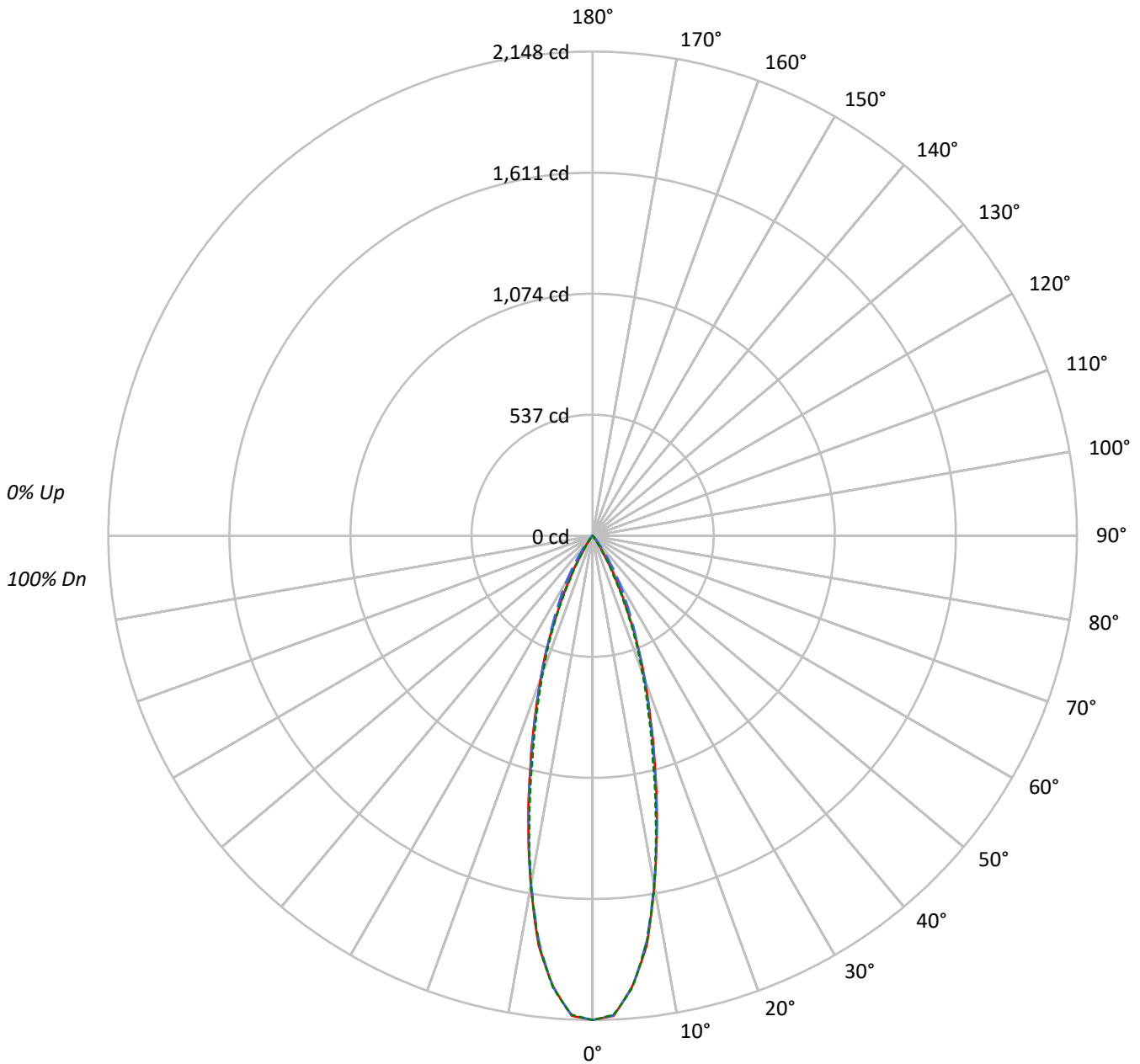
Input Watts (W): 9.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886791

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3SDMB-600LM-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P886791

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3SDMB-600LM-3000K

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	115	112	110	109	112	110	108	107	106	105	104	103	102	100	99	98	98	96																			
2	110	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92																			
3	106	101	98	94	105	100	97	94	98	95	92	95	93	91	93	91	89	88																			
4	103	97	93	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84																			
5	99	93	88	85	98	92	88	84	90	86	84	89	85	83	87	84	82	81																			
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78																			
7	92	85	81	77	91	85	80	77	84	80	77	83	79	77	82	78	76	75																			
8	89	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72																			
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70																			
10	84	76	72	69	83	76	72	69	75	71	69	75	71	69	74	71	68	67																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	369917	369917	369917
5°	347023	347715	348060
10°	275593	274298	275488
15°	190815	189014	183825
20°	123033	123033	117828
25°	67840	76448	64495
30°	28637	44645	24878
35°	8956	19195	7401
40°	1821	6835	1821
45°	658	1656	658
50°	188	536	188
55°	0	210	0
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: 1656 cd/sqm



TEST NUMBER: P886791

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3SDMB-600LM-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	25.6
10°-20°	293.5	42.1
20°-30°	175.9	25.2
30°-40°	44.5	6.4
40°-50°	4.4	0.6
50°-60°	0.4	0.1
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°	647.3	92.9
0°-40°	691.8	99.3
0°-60°	696.6	100.0
0°-90°	696.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2007	2015	2011	2011	2013	178
15°	1070	1064	1060	1053	1031	296
25°	357	387	402	377	339	168
35°	43	61	91	53	35	33
45°	3	4	7	4	3	3
55°	0	0	1	0	0	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



TEST NUMBER: P886791

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3SDMB-600LM-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2147.9	2147.9	2147.9	2147.9	2147.9
2.5°	2131.7	2126.9	2128.3	2126.9	2127.6
5°	2007.3	2014.7	2011.3	2011.3	2013.3
7.5°	1834.2	1822.7	1820.7	1820.0	1826.8
10°	1575.9	1583.4	1568.5	1572.5	1575.3
12.5°	1316.3	1314.3	1312.9	1306.2	1296.7
15°	1070.2	1064.1	1060.1	1052.6	1031.0
17.5°	854.6	853.9	845.1	830.9	822.8
20°	671.3	674.7	671.3	657.1	642.9
22.5°	514.5	530.7	517.9	512.5	490.2
25°	357.0	387.4	402.3	376.6	339.4
27.5°	236.6	269.1	306.9	254.2	217.0
30°	144.0	172.4	224.5	161.6	125.1
32.5°	81.8	106.8	152.8	97.4	69.0
35°	42.6	60.8	91.3	53.4	35.2
37.5°	17.6	30.4	52.7	26.4	15.5
40°	8.1	12.8	30.4	12.2	8.1
42.5°	4.7	6.1	15.5	6.1	4.7
45°	2.7	4.1	6.8	4.1	2.7
47.5°	2.0	2.0	3.4	2.0	2.0
50°	0.7	1.4	2.0	1.4	0.7
52.5°	0.7	0.7	1.4	0.7	0.7
55°	0.0	0.0	0.7	0.0	0.0
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



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)