

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: P886692

Luminaire Tested: ML310LSFL9FS1E-TIR4D25NFL-TL3RDSL-1000LM-2700K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL9FS1E-TIR4D25NFL-TL3RDSL-1000LM-2700K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

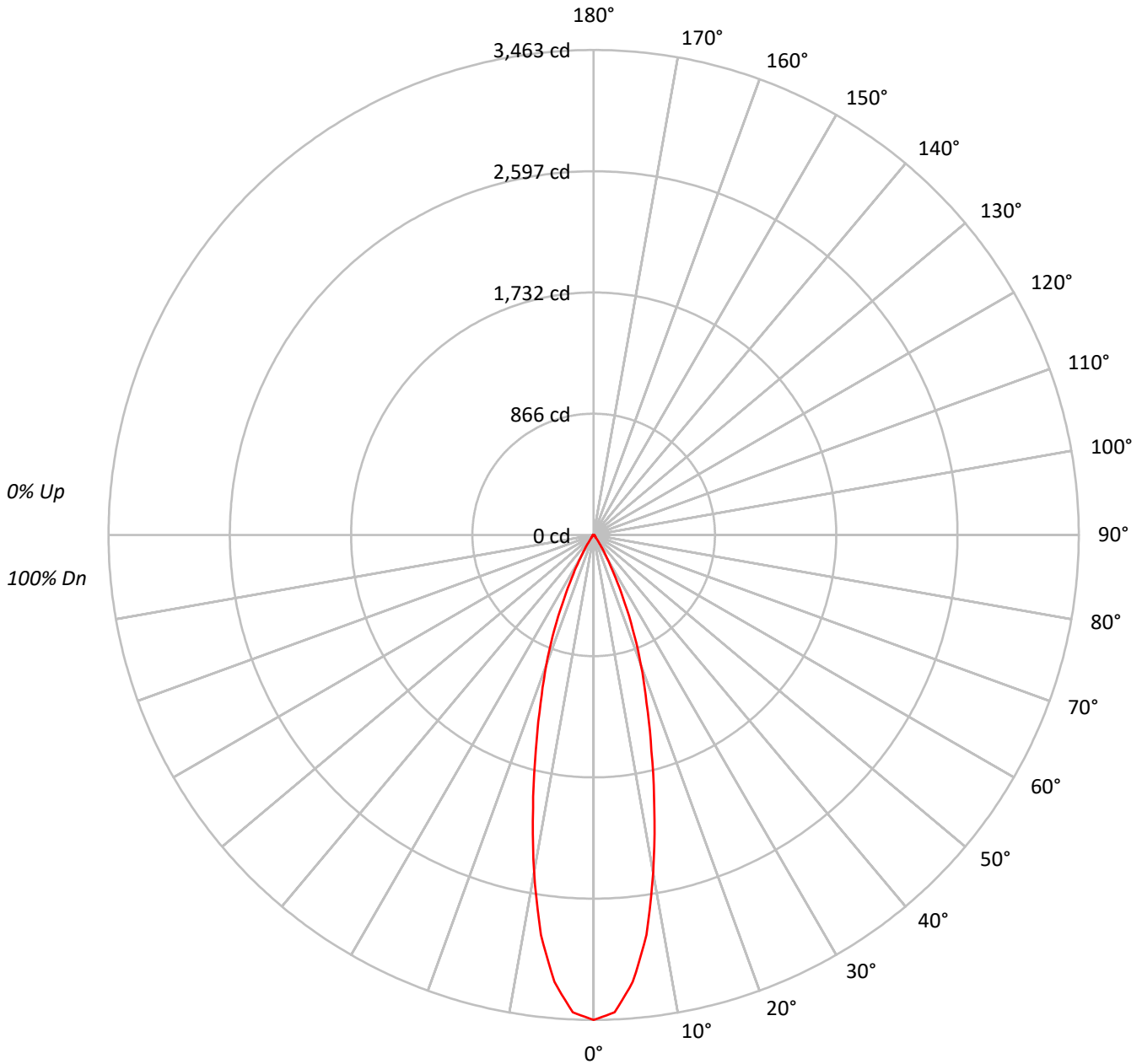
Lumens per Lamp: N/A
Luminaire Lumens: 1041.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 13.8
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



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Luminous Intensity Polar Plot





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CATALOG NUMBER: ML310LSFL9FS1E-TIR4D25NFL-TL3RD5L-1000LM-2700K

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			100																
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96			96																
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			91																
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87			87																
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84			84																
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			81																
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78			78																
7	92	85	80	77	91	85	80	77	83	79	77	82	79	76	81	78	76	75			75																
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72			72																
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70			70																
10	84	77	72	69	83	76	72	69	75	72	69	75	71	69	74	71	69	68			68																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	759457
5°	705105
10°	544857
15°	361568
20°	230180
25°	118362
30°	47628
35°	16062
40°	6298
45°	4652
50°	4094
55°	3823
60°	3947
65°	4151
70°	3847
75°	4236
80°	3788
85°	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4652 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.7	27.1
10°-20°	444.0	42.6
20°-30°	234.2	22.5
30°-40°	46.1	4.4
40°-50°	12.1	1.2
50°-60°	9.3	0.9
60°-70°	7.6	0.7
70°-80°	4.9	0.5
80°-90°	1.2	0.1
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°	959.8	92.2
0°-40°	1005.9	96.6
0°-60°	1027.3	98.7
0°-90°	1041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3463	
5°	3203	282
15°	1593	444
25°	489	234
35°	60	46
45°	15	12
55°	10	9
65°	8	8
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3463.4
2.5°	3412.4
5°	3203.3
7.5°	2880.2
10°	2447.0
12.5°	1999.8
15°	1592.7
17.5°	1255.5
20°	986.4
22.5°	730.3
25°	489.2
27.5°	312.1
30°	188.1
32.5°	109.0
35°	60.0
37.5°	32.0
40°	22.0
42.5°	18.0
45°	15.0
47.5°	13.0
50°	12.0
52.5°	11.0
55°	10.0
57.5°	10.0
60°	9.0
62.5°	8.0
65°	8.0
67.5°	7.0
70°	6.0
72.5°	5.0
75°	5.0
77.5°	4.0
80°	3.0
82.5°	2.0
85°	1.0
87.5°	0.0
90°	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

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— 0°-180°

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