

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: P886745

Luminaire Tested: ML310LSFL9FS1E-TIR4D55WFL-TL3RDMB-1000LM-4000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL9FS1E-TIR4D55WFL-TL3RDDB-1000LM-4000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

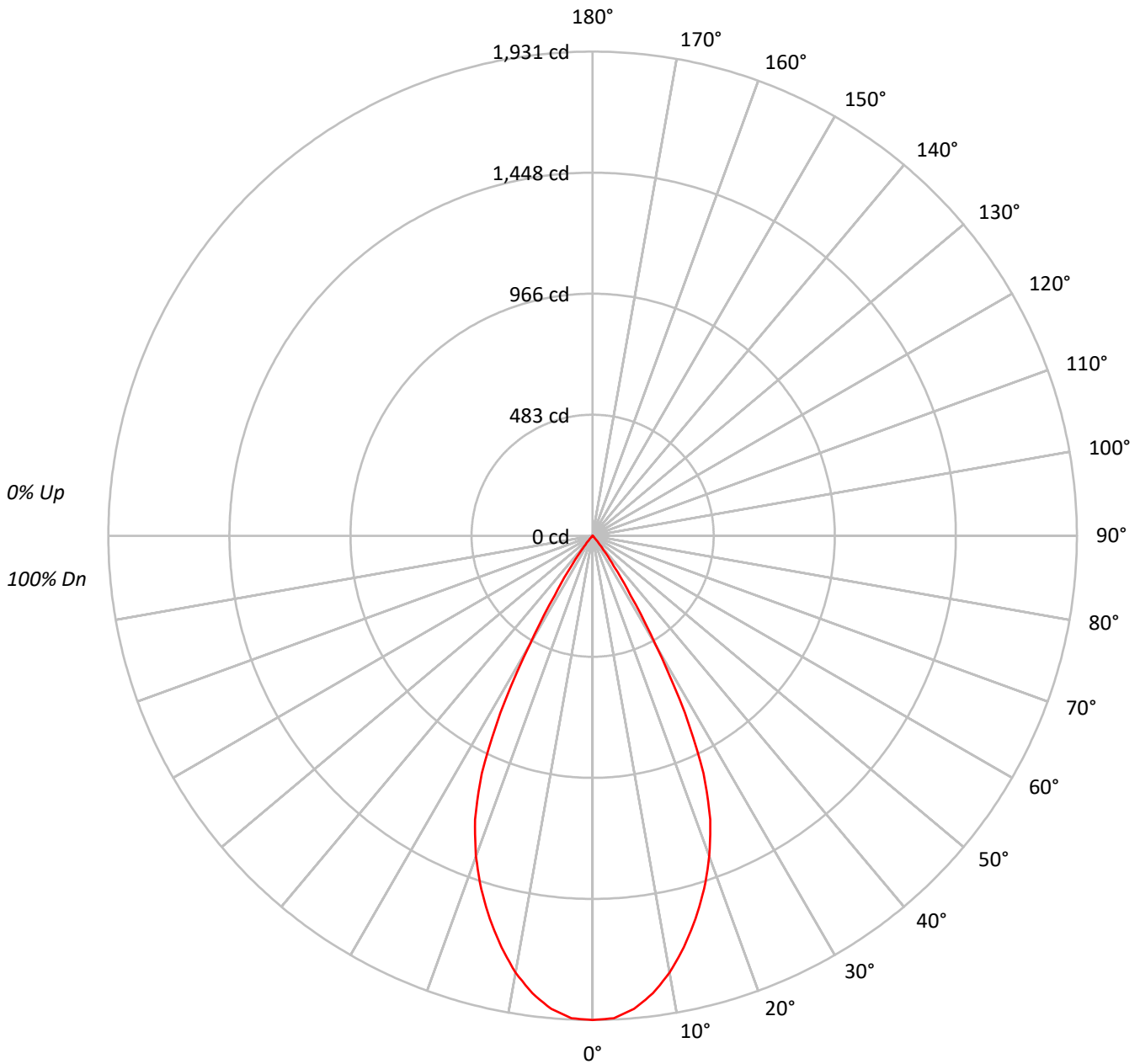
Lumens per Lamp: N/A
Luminaire Lumens: 1187.9 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									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	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	100	99	98	97	95	95	93	92	90																	
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	93	92	90	89	87	85	85	83	81	79																
	2	109	105	102	99	107	104	100	98	100	98	96	97	95	93	95	93	92	90	90	88	87	85	84	82	81	80	78	77																	
	3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	83	82	81	80	78	77	75	74	73																	
	4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	84	82	81	80	79	78	77	75	74	73	72	70	69																	
	5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	84	80	78	77	75	74	73	72	70	69	68	67	65	63																	
	6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73	72	70	69	68	67	65	64	63	61	60																	
	7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69	68	67	65	64	63	61	60	59	57	55																	
	8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66	65	64	63	61	60	59	57	55	53	51																	
	9	82	73	68	65	81	73	68	65	72	68	64	71	67	64	70	67	64	63	62	61	60	59	57	55	53	51	49	47																	
	10	79	70	65	62	78	70	65	62	69	64	61	68	64	61	67	64	61	60	59	57	55	53	51	49	47	45	43	41																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	423497
5°	416860
10°	393869
15°	359185
20°	317384
25°	253152
30°	126450
35°	39645
40°	8215
45°	682
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 682 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	14.9
10°-20°	440.9	37.1
20°-30°	451.0	38.0
30°-40°	114.5	9.6
40°-50°	4.7	0.4
50°-60°	0.0	0.0
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°	1068.7	90.0
0°-40°	1183.2	99.6
0°-60°	1187.9	100.0
0°-90°	1187.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1187.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1931	
5°	1894	177
15°	1582	441
25°	1046	451
35°	148	115
45°	2	5
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1931.3
2.5°	1925.8
5°	1893.8
7.5°	1840.7
10°	1768.9
12.5°	1680.5
15°	1582.2
17.5°	1477.2
20°	1360.1
22.5°	1225.3
25°	1046.3
27.5°	796.6
30°	499.4
32.5°	281.7
35°	148.1
37.5°	70.7
40°	28.7
42.5°	7.7
45°	2.2
47.5°	1.1
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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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(END OF REPORT)