

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: P886550

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDDB-650LM-4000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMB-650LM-4000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

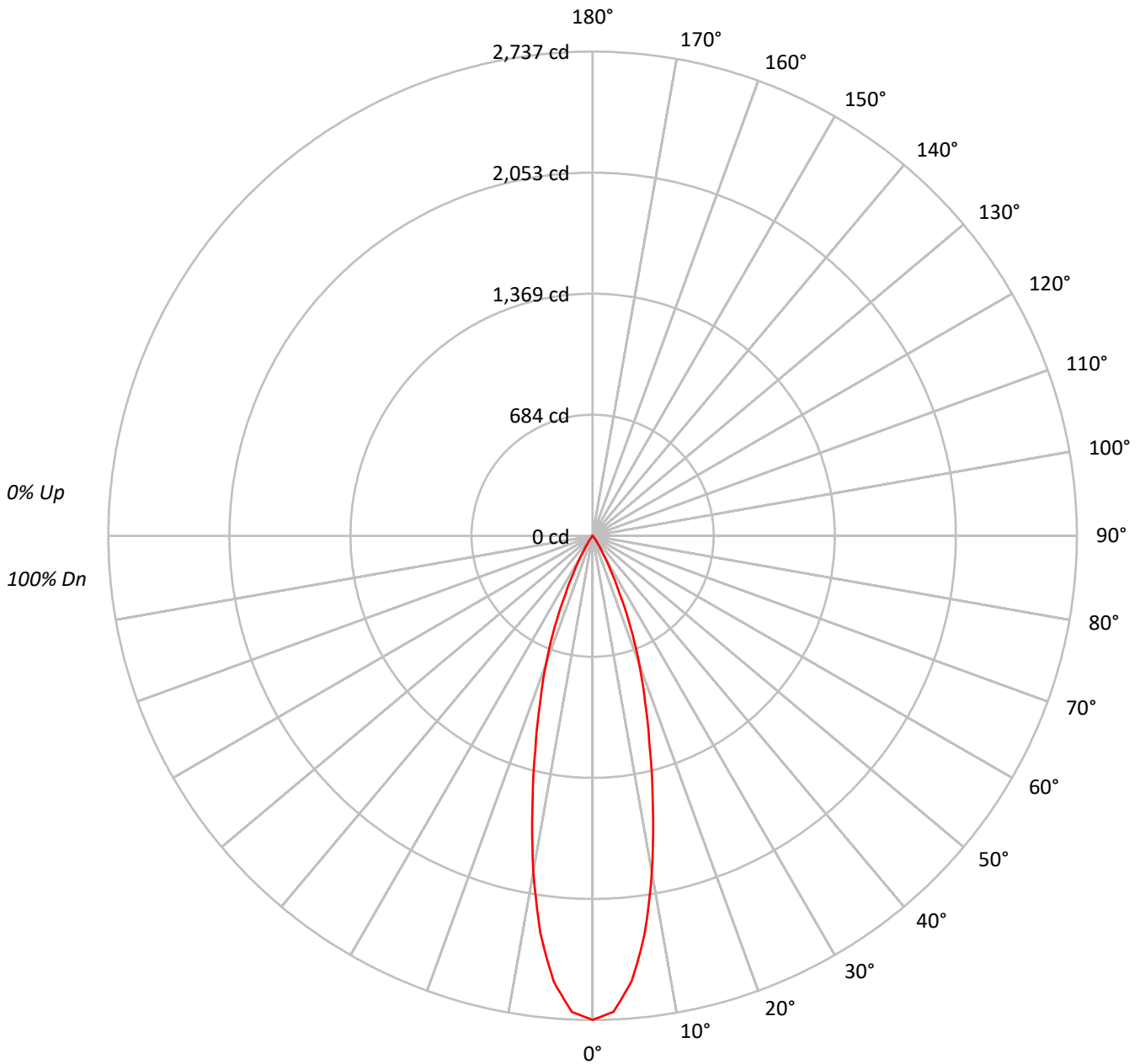
Lumens per Lamp: N/A
Luminaire Lumens: 776.5 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 10.7
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	100	100	100	100	100	100	100	100	100																
	1	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	96	96	96	96	96	96	96	96	96																
	2	111	107	104	101	109	105	103	100	102	100	98	96	94	92	91	90	89	87	86	85	84	83	82	81	80	79	78	77	76																
	3	107	102	99	96	105	101	98	95	99	96	93	91	89	87	85	83	81	79	77	75	73	71	69	67	65	63	61	59	57																
	4	104	98	94	91	102	97	93	90	95	92	89	86	84	82	80	78	76	74	72	70	68	66	64	62	60	58	56	54	52																
	5	100	94	90	87	99	93	89	86	92	88	86	84	82	80	78	76	74	72	70	68	66	64	62	60	58	56	54	52	50																
	6	97	91	86	83	96	90	86	83	88	85	82	80	78	76	74	72	70	68	66	64	62	60	58	56	54	52	50	48	46																
	7	94	87	83	80	93	87	83	80	86	82	79	77	75	73	71	69	67	65	63	61	59	57	55	53	51	49	47	45	43																
	8	91	84	80	77	90	84	80	77	83	79	76	74	72	70	68	66	64	62	60	58	56	54	52	50	48	46	44	42	40																
	9	89	81	77	74	88	81	77	74	80	77	74	72	70	68	66	64	62	60	58	56	54	52	50	48	46	44	42	40	38																
	10	86	79	75	72	85	79	74	72	78	74	72	70	68	66	64	62	60	58	56	54	52	50	48	46	44	42	40	38	36																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	600105
5°	556569
10°	429384
15°	283770
20°	179472
25°	87900
30°	32461
35°	8754
40°	1861
45°	744
50°	273
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: 744 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	28.6
10°-20°	348.7	44.9
20°-30°	176.3	22.7
30°-40°	27.2	3.5
40°-50°	2.2	0.3
50°-60°	0.1	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°	747.0	96.2
0°-40°	774.2	99.7
0°-60°	776.5	100.0
0°-90°	776.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	776.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2737	
5°	2528	222
15°	1250	349
25°	363	176
35°	33	27
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2736.7
2.5°	2693.4
5°	2528.5
7.5°	2263.1
10°	1928.4
12.5°	1573.3
15°	1250.0
17.5°	986.2
20°	769.1
22.5°	560.9
25°	363.3
27.5°	227.0
30°	128.2
32.5°	69.4
35°	32.7
37.5°	13.1
40°	6.5
42.5°	4.1
45°	2.4
47.5°	1.6
50°	0.8
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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