

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: P886553

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDDB-850LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886553
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-850LM-3000K
Description: 3IN ROUND 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: 895.1 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')

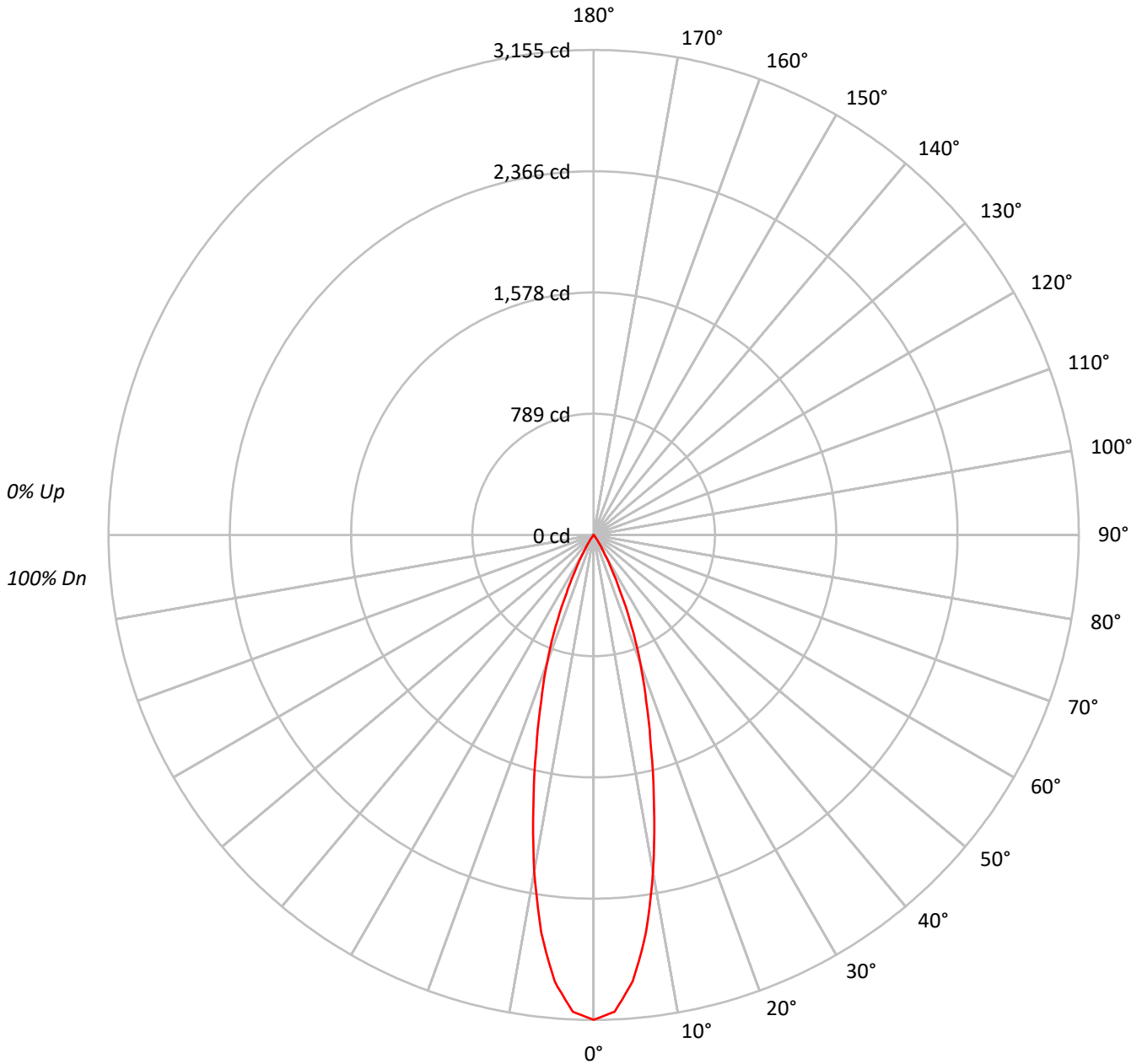
CIE Type: Direct

Input Watts (W): 13.6
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: P886553
CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMB-850LM-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P886553
 CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMB-850LM-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	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96																			
2	111	107	104	101	109	105	103	100	102	100	98	100	98	96	97	95	94	93																			
3	107	102	99	96	105	101	98	95	99	96	93	96	94	92	94	92	91	89																			
4	104	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	86																			
5	100	94	90	87	99	93	89	86	92	88	86	90	87	85	89	86	84	83																			
6	97	91	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81	80																			
7	94	87	83	80	93	87	83	80	86	82	79	85	81	79	84	81	78	77																			
8	91	84	80	77	90	84	80	77	83	79	76	82	79	76	81	78	76	75																			
9	89	81	77	74	88	81	77	74	80	77	74	79	76	74	79	76	73	73																			
10	86	79	75	72	85	79	74	72	78	74	72	77	74	71	77	73	71	70																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	691743
5°	641579
10°	494959
15°	327107
20°	206868
25°	101328
30°	37423
35°	10065
40°	2147
45°	868
50°	307
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: 868 cd/sqm



TEST NUMBER: P886553

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMB-850LM-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	28.6
10°-20°	402.0	44.9
20°-30°	203.2	22.7
30°-40°	31.4	3.5
40°-50°	2.6	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°	861.0	96.2
0°-40°	892.4	99.7
0°-60°	895.1	100.0
0°-90°	895.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3155	
5°	2915	256
15°	1441	402
25°	419	203
35°	38	31
45°	3	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P886553
CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMB-850LM-3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	3154.6
2.5°	3104.8
5°	2914.7
7.5°	2608.8
10°	2222.9
12.5°	1813.5
15°	1440.9
17.5°	1136.9
20°	886.5
22.5°	646.6
25°	418.8
27.5°	261.6
30°	147.8
32.5°	80.0
35°	37.6
37.5°	15.1
40°	7.5
42.5°	4.7
45°	2.8
47.5°	1.9
50°	0.9
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

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



— 0°-180°

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)