

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P885668

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSL-340LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-137)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSL-340LM-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 277.6 lumens
Efficiency: N/A
Efficacy: 45.5 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

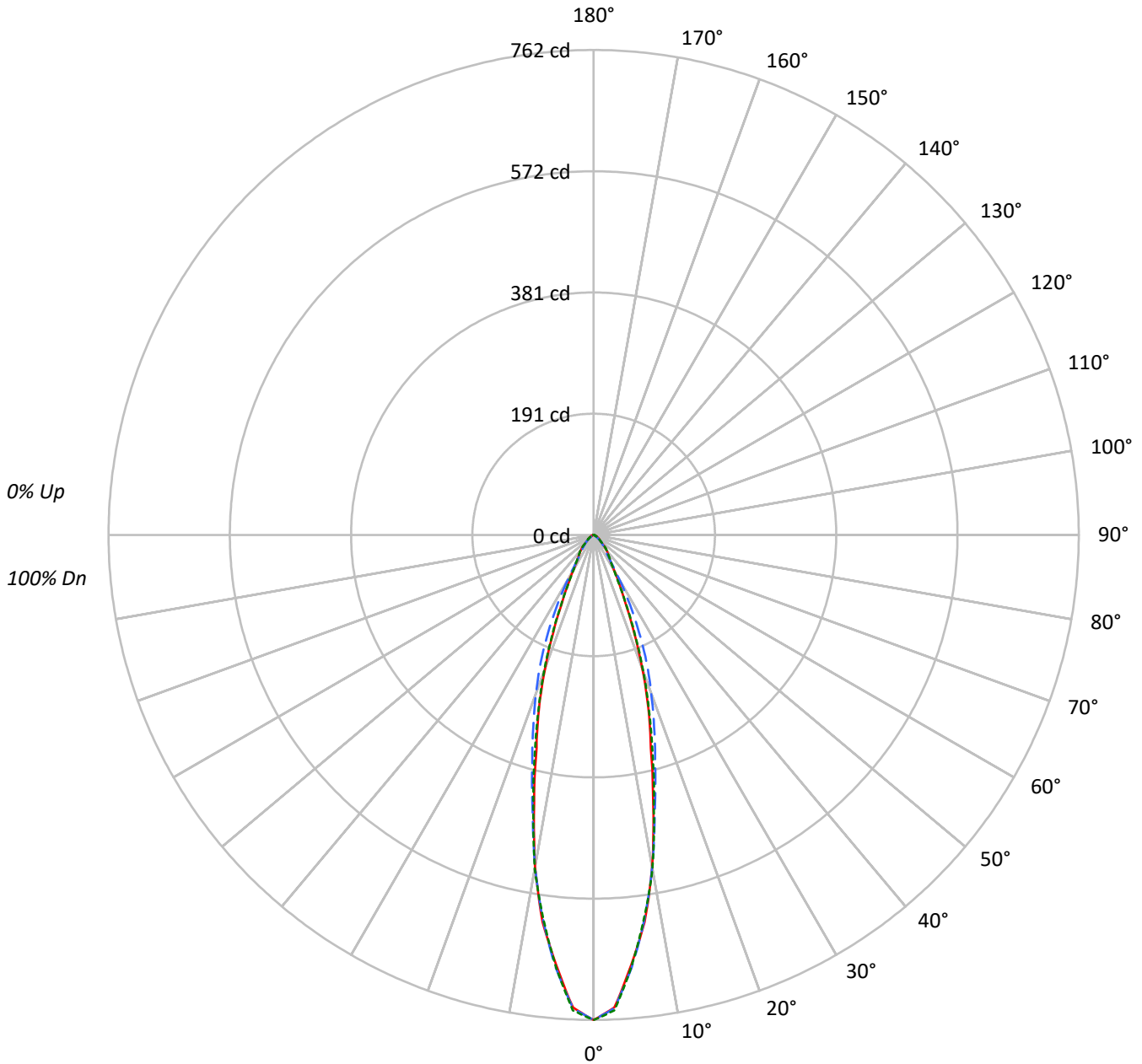
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95																			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89																			
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84																			
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	83	81	80																			
5	96	88	83	79	94	88	83	79	86	82	78	84	81	78	83	80	77	76																			
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72																			
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69																			
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	70	67	66																			
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63																			
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1181422	1181422	1181422
5°	1054147	1062549	1059749
10°	833867	833867	838116
15°	556669	597107	573999
20°	367012	435466	374435
25°	201810	288178	206428
30°	114547	143542	111326
35°	78338	69823	80041
40°	63737	52811	65558
45°	43403	39457	43403
50°	30384	26043	30384
55°	24321	9729	24321
60°	19530	8370	19530
65°	13204	6602	13204
70°	8157	4079	8157
75°	5390	5390	5390
80°	8034	0	8034
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 43403 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	21.7
10°-20°	101.2	36.5
20°-30°	65.1	23.5
30°-40°	27.3	9.8
40°-50°	14.3	5.2
50°-60°	5.7	2.0
60°-70°	2.6	0.9
70°-80°	1.1	0.4
80°-90°	0.1	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°	226.6	81.6
0°-40°	253.8	91.5
0°-60°	273.8	98.7
0°-90°	277.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	277.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	678	678	683	679	681	60
15°	347	361	372	365	358	98
25°	118	131	168	134	121	57
35°	41	43	37	42	42	27
45°	20	18	18	19	20	16
55°	9	5	4	5	9	8
65°	4	3	2	3	4	4
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.2	762.2	762.2	762.2	762.2
2.5°	743.3	745.1	744.2	745.1	747.8
5°	677.5	678.4	682.9	679.3	681.1
7.5°	613.6	610.0	610.0	610.9	607.3
10°	529.8	526.2	529.8	528.0	532.5
12.5°	431.6	437.0	443.3	441.5	437.0
15°	346.9	361.3	372.1	364.9	357.7
17.5°	285.6	294.6	315.3	299.1	288.3
20°	222.5	236.1	264.0	240.6	227.0
22.5°	165.8	182.9	217.1	185.6	169.4
25°	118.0	130.6	168.5	134.2	120.7
27.5°	86.5	94.6	123.4	96.4	83.8
30°	64.0	72.1	80.2	70.3	62.2
32.5°	49.6	55.9	50.5	54.1	50.5
35°	41.4	43.2	36.9	42.3	42.3
37.5°	36.0	33.3	30.6	33.3	36.9
40°	31.5	27.0	26.1	27.9	32.4
42.5°	26.1	23.4	21.6	23.4	27.0
45°	19.8	18.0	18.0	18.9	19.8
47.5°	14.4	11.7	15.3	12.6	15.3
50°	12.6	8.1	10.8	8.1	12.6
52.5°	10.8	7.2	6.3	7.2	10.8
55°	9.0	5.4	3.6	5.4	9.0
57.5°	7.2	4.5	2.7	4.5	7.2
60°	6.3	3.6	2.7	3.6	6.3
62.5°	4.5	2.7	1.8	3.6	4.5
65°	3.6	2.7	1.8	2.7	3.6
67.5°	2.7	1.8	0.9	1.8	2.7
70°	1.8	1.8	0.9	1.8	1.8
72.5°	1.8	0.9	0.9	0.9	1.8
75°	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.0	0.9	0.9
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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