

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: P886125

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-93)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

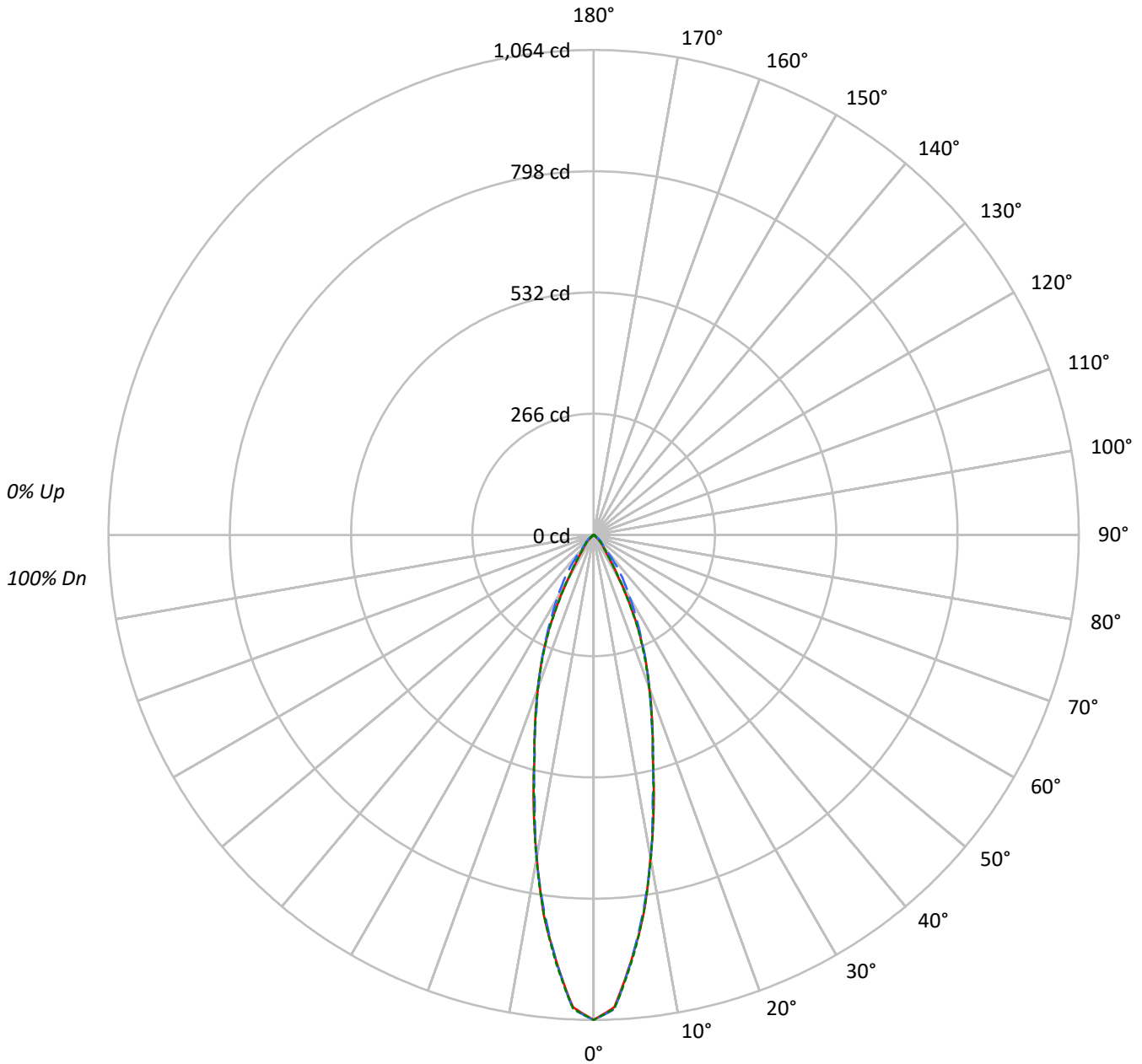
Lumens per Lamp: N/A
Luminaire Lumens: 401.8 lumens
Efficiency: N/A
Efficacy: 50.2 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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					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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90								
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85								
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80								
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76								
6	92	84	79	76	91	84	79	75	82	78	75	81	77	74	80	76	74	73								
7	89	80	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69								
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66								
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63								
10	79	71	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	412338	412338	412338
5°	365330	365330	366963
10°	282753	283422	284091
15°	200504	201507	201507
20°	146968	146597	146968
25°	100733	103982	99664
30°	50293	70920	50651
35°	23416	46785	24977
40°	15681	21195	15681
45°	10577	13317	10083
50°	4039	10610	4039
55°	2837	3378	2837
60°	1937	1317	1937
65°	1559	734	1559
70°	906	906	906
75°	1198	1198	1198
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13317 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	20.7
10°-20°	141.2	35.1
20°-30°	109.2	27.2
30°-40°	45.9	11.4
40°-50°	16.1	4.0
50°-60°	4.2	1.1
60°-70°	1.5	0.4
70°-80°	0.7	0.2
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°	333.4	83.0
0°-40°	379.3	94.4
0°-60°	399.7	99.5
0°-90°	401.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	401.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	939	943	939	941	943	83
15°	500	503	502	504	502	142
25°	236	243	243	242	233	105
35°	50	62	99	63	53	36
45°	19	21	24	20	18	14
55°	4	3	5	3	4	4
65°	2	2	1	2	2	2
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°	1064.1	1064.1	1064.1	1064.1	1064.1
2.5°	1037.3	1035.6	1041.5	1041.5	1040.6
5°	939.2	943.4	939.2	940.8	943.4
7.5°	839.4	836.0	832.7	833.5	838.5
10°	718.6	718.6	720.3	720.3	722.0
12.5°	608.8	598.7	597.9	603.7	603.7
15°	499.8	503.1	502.3	504.0	502.3
17.5°	426.0	421.8	420.9	424.3	423.5
20°	356.4	358.1	355.5	357.2	356.4
22.5°	297.7	296.8	297.7	298.5	292.7
25°	235.6	243.2	243.2	242.3	233.1
27.5°	171.1	189.5	197.1	186.2	168.5
30°	112.4	137.5	158.5	135.8	113.2
32.5°	74.6	91.4	127.5	92.2	76.3
35°	49.5	62.1	98.9	62.9	52.8
37.5°	37.7	45.3	68.8	44.4	38.6
40°	31.0	32.7	41.9	33.5	31.0
42.5°	25.2	26.0	29.3	26.0	25.2
45°	19.3	21.0	24.3	20.1	18.4
47.5°	9.2	14.3	21.0	13.4	11.7
50°	6.7	5.9	17.6	8.4	6.7
52.5°	5.0	4.2	12.6	4.2	5.0
55°	4.2	3.4	5.0	3.4	4.2
57.5°	3.4	2.5	2.5	2.5	3.4
60°	2.5	2.5	1.7	2.5	2.5
62.5°	2.5	1.7	1.7	1.7	2.5
65°	1.7	1.7	0.8	1.7	1.7
67.5°	1.7	0.8	0.8	0.8	1.7
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0
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

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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