

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: P886240

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-102)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

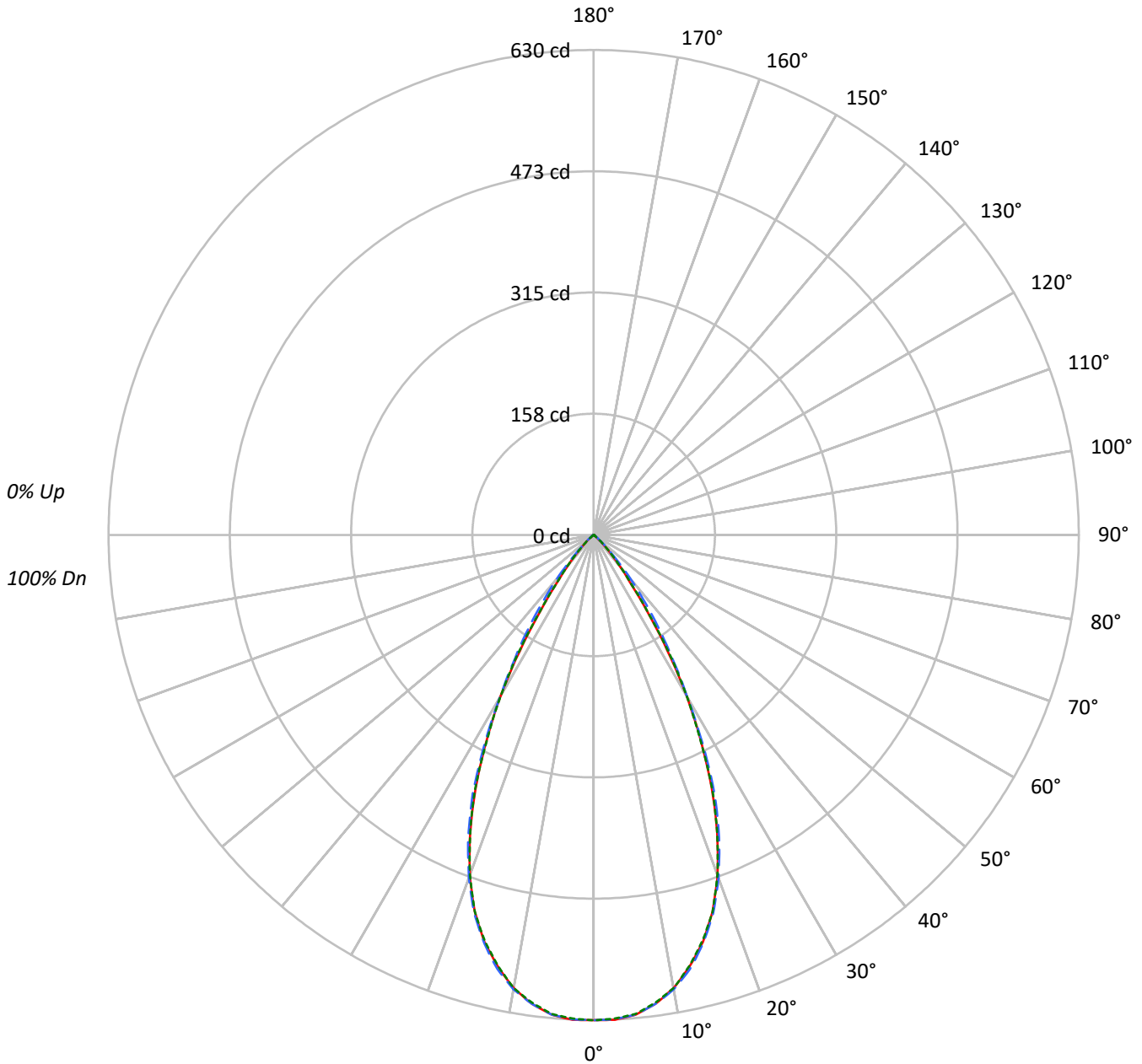
Lumens per Lamp: N/A
Luminaire Lumens: 484.2 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	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	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88								
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83								
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73								
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68								
7	85	77	71	67	84	76	71	67	75	70	66	73	69	66	72	69	66	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61								
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57								
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	244318	244318	244318
5°	243307	243307	242996
10°	235221	235890	235221
15°	219640	220322	218998
20°	193978	195339	193648
25°	155246	158838	155931
30°	108058	108819	108058
35°	56719	69018	58327
40°	26709	37736	27164
45°	10577	13810	10577
50°	3557	4521	3557
55°	1148	2297	1148
60°	620	620	620
65°	734	0	734
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13810 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	12.1
10°-20°	152.1	31.4
20°-30°	164.7	34.0
30°-40°	85.9	17.7
40°-50°	19.7	4.1
50°-60°	2.5	0.5
60°-70°	0.5	0.1
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°	375.5	77.6
0°-40°	461.4	95.3
0°-60°	483.7	99.9
0°-90°	484.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	484.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	626	625	626	625	625	59
15°	548	548	549	548	546	152
25°	363	366	372	366	365	163
35°	120	135	146	136	123	80
45°	19	21	25	21	19	18
55°	2	2	3	2	2	2
65°	1	1	0	1	1	0
75°	0	0	0	0	0	0
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°	630.5	630.5	630.5	630.5	630.5
2.5°	630.5	630.5	629.7	630.5	628.9
5°	625.5	624.7	625.5	624.7	624.7
7.5°	614.6	614.6	614.6	613.8	612.9
10°	597.8	598.7	599.5	598.7	597.8
12.5°	574.4	574.4	577.7	573.5	573.5
15°	547.5	547.5	549.2	547.5	545.9
17.5°	513.2	514.0	515.7	512.3	513.2
20°	470.4	471.2	473.7	472.1	469.6
22.5°	419.2	422.6	426.0	426.8	419.2
25°	363.1	366.4	371.5	365.6	364.7
27.5°	301.0	301.9	306.9	303.5	299.3
30°	241.5	241.5	243.2	240.6	241.5
32.5°	178.6	188.7	190.3	188.7	182.8
35°	119.9	135.0	145.9	135.8	123.3
37.5°	77.1	86.4	105.7	87.2	78.0
40°	52.8	55.3	74.6	55.3	53.7
42.5°	33.5	36.1	45.3	36.1	33.5
45°	19.3	21.0	25.2	21.0	19.3
47.5°	10.9	11.7	14.3	11.7	11.7
50°	5.9	6.7	7.5	6.7	5.9
52.5°	3.4	4.2	5.0	4.2	3.4
55°	1.7	2.5	3.4	2.5	1.7
57.5°	0.8	0.8	1.7	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.0	0.8	0.8
67.5°	0.0	0.8	0.0	0.0	0.8
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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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