

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: P886246

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-3000K

Issue Date: 6/20/2024

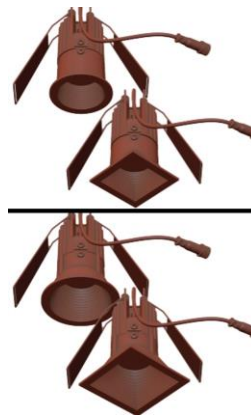
Test Information

Test Method: LM-79-2019
Report Number: P886246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-105)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 496.8 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

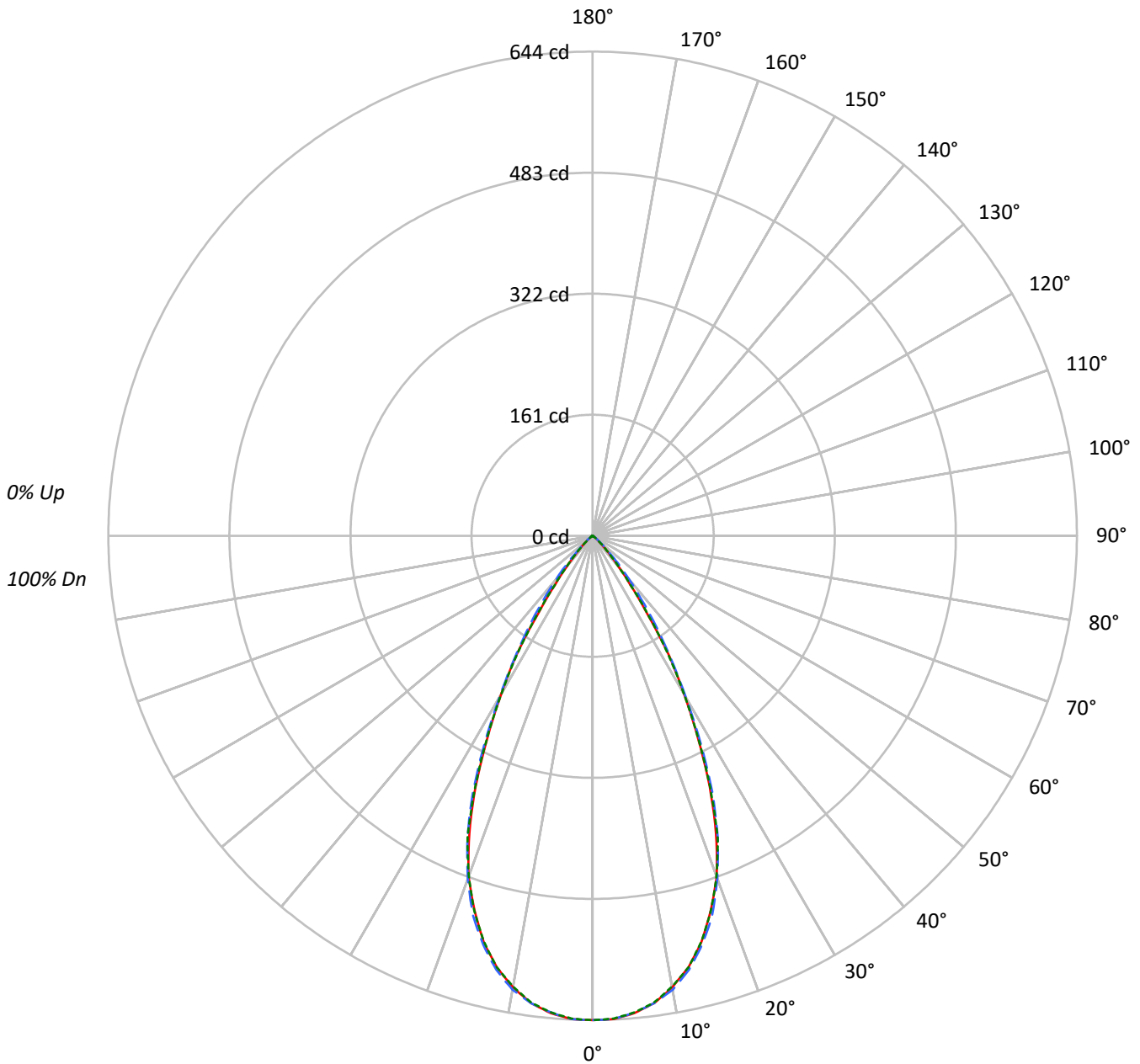
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	108	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	82								
4	98	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	72								
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68								
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60								
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57								
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	249666	249666	249666
5°	247936	247586	247586
10°	239903	241241	239549
15°	224414	225818	224093
20°	198926	199999	198555
25°	157384	161061	158111
30°	108864	110430	108506
35°	60219	69254	61449
40°	27164	37685	27619
45°	11399	15180	11892
50°	4702	5727	4702
55°	1757	2365	1757
60°	697	697	697
65°	825	825	825
70°	1020	0	1020
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15180 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	12.1
10°-20°	155.6	31.3
20°-30°	167.7	33.8
30°-40°	88.3	17.8
40°-50°	21.1	4.2
50°-60°	3.2	0.6
60°-70°	0.8	0.2
70°-80°	0.1	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°	383.4	77.2
0°-40°	471.7	94.9
0°-60°	495.9	99.8
0°-90°	496.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	496.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	637	637	636	636	636	60
15°	559	559	563	559	559	155
25°	368	372	377	372	370	166
35°	127	139	146	139	130	83
45°	21	22	28	22	22	18
55°	3	3	4	3	3	3
65°	1	1	1	1	1	1
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°	644.3	644.3	644.3	644.3	644.3
2.5°	643.4	643.4	643.4	642.6	642.6
5°	637.4	637.4	636.5	636.5	636.5
7.5°	627.0	627.9	627.0	626.1	626.1
10°	609.7	611.4	613.1	612.3	608.8
12.5°	588.0	588.0	591.5	588.0	588.0
15°	559.4	559.4	562.9	559.4	558.6
17.5°	522.2	524.8	529.1	524.8	523.1
20°	482.4	482.4	485.0	485.0	481.5
22.5°	428.7	432.1	434.7	433.9	434.7
25°	368.1	371.5	376.7	372.4	369.8
27.5°	303.1	306.6	310.9	310.0	304.8
30°	243.3	247.7	246.8	245.9	242.5
32.5°	188.8	192.3	193.1	191.4	186.2
35°	127.3	139.4	146.4	138.6	129.9
37.5°	82.3	92.7	106.5	93.5	83.1
40°	53.7	57.2	74.5	60.6	54.6
42.5°	33.8	37.2	49.4	37.2	34.6
45°	20.8	22.5	27.7	22.5	21.7
47.5°	12.1	13.0	16.5	13.0	13.0
50°	7.8	7.8	9.5	7.8	7.8
52.5°	4.3	5.2	6.1	5.2	5.2
55°	2.6	2.6	3.5	2.6	2.6
57.5°	1.7	1.7	1.7	1.7	1.7
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.0	0.0	0.0	0.9
72.5°	0.9	0.0	0.0	0.0	0.9
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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