

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: P886129

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-5000K

Issue Date: 6/20/2024

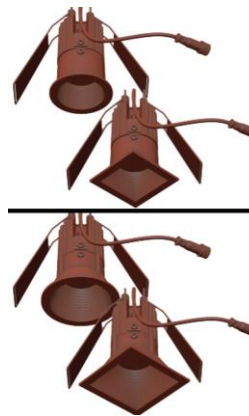
Test Information

Test Method: LM-79-2019
Report Number: P886129
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-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 466.8 lumens
Efficiency: N/A
Efficacy: 58.4 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

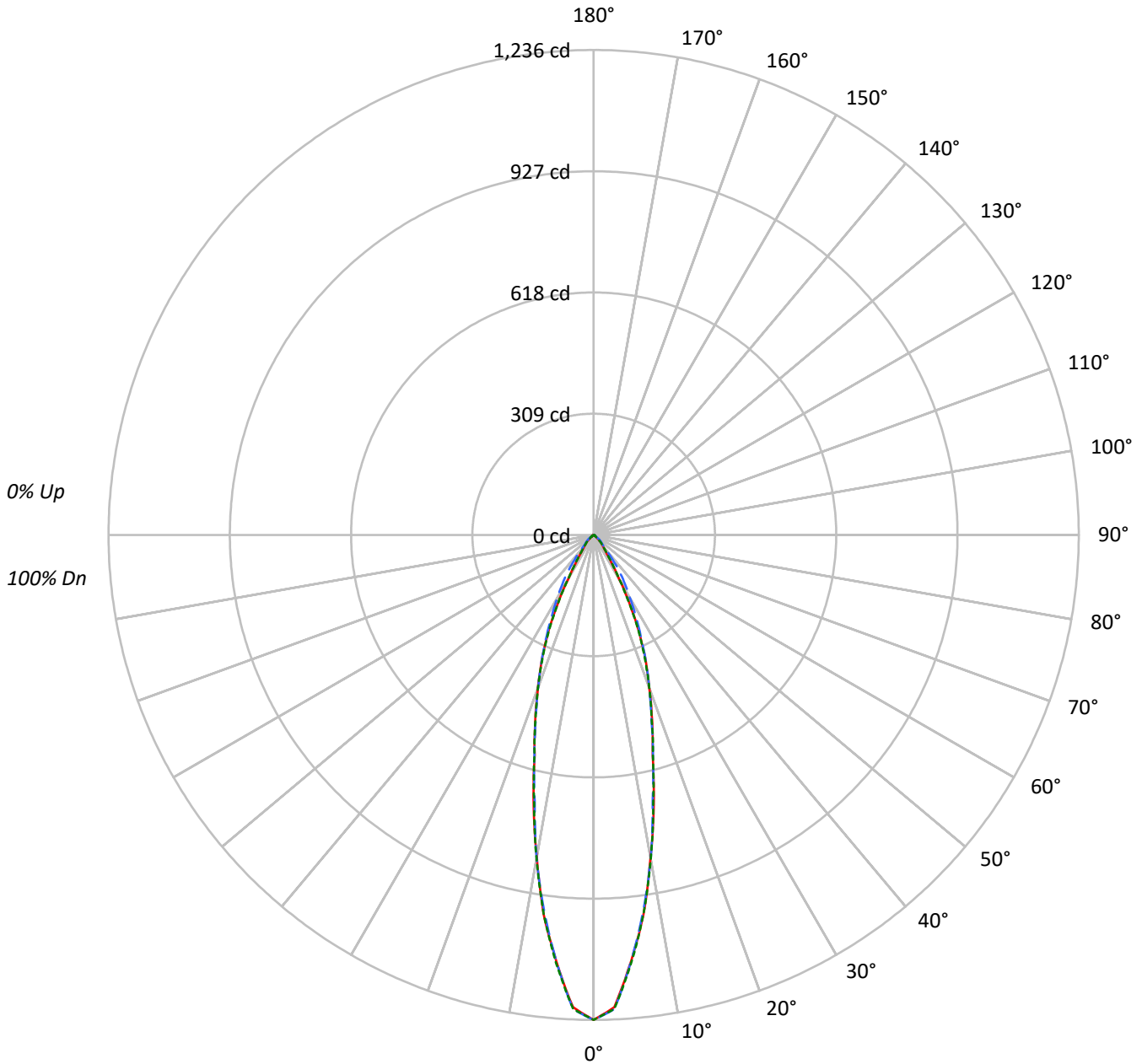
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	90	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	75	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	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	478988	478988	478988
5°	424377	424377	426283
10°	328475	329262	330009
15°	232919	234082	234082
20°	170720	170308	170720
25°	117023	120785	115783
30°	58392	82375	58839
35°	27200	54353	29045
40°	18210	24635	18210
45°	12275	15454	11727
50°	4702	12358	4702
55°	3310	3918	3310
60°	2247	1472	2247
65°	1742	917	1742
70°	1133	1133	1133
75°	1497	1497	1497
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15454 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	20.6
10°-20°	164.0	35.1
20°-30°	126.9	27.2
30°-40°	53.3	11.4
40°-50°	18.7	4.0
50°-60°	4.9	1.1
60°-70°	1.7	0.4
70°-80°	0.9	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°	387.3	83.0
0°-40°	440.6	94.4
0°-60°	464.3	99.5
0°-90°	466.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1091	1096	1091	1093	1096	96
15°	581	584	584	585	584	164
25°	274	282	282	282	271	122
35°	58	72	115	73	61	41
45°	22	24	28	23	21	16
55°	5	4	6	4	5	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1236.1	1236.1	1236.1	1236.1	1236.1
2.5°	1205.0	1203.0	1209.8	1209.8	1208.9
5°	1091.0	1095.9	1091.0	1092.9	1095.9
7.5°	975.1	971.2	967.3	968.3	974.1
10°	834.8	834.8	836.8	836.8	838.7
12.5°	707.2	695.5	694.5	701.4	701.4
15°	580.6	584.5	583.5	585.4	583.5
17.5°	494.8	490.0	489.0	492.9	491.9
20°	414.0	415.9	413.0	415.0	414.0
22.5°	345.8	344.8	345.8	346.8	340.0
25°	273.7	282.5	282.5	281.5	270.8
27.5°	198.7	220.1	228.9	216.3	195.8
30°	130.5	159.8	184.1	157.8	131.5
32.5°	86.7	106.2	148.1	107.2	88.6
35°	57.5	72.1	114.9	73.1	61.4
37.5°	43.8	52.6	79.9	51.6	44.8
40°	36.0	38.0	48.7	39.0	36.0
42.5°	29.2	30.2	34.1	30.2	29.2
45°	22.4	24.4	28.2	23.4	21.4
47.5°	10.7	16.6	24.4	15.6	13.6
50°	7.8	6.8	20.5	9.7	7.8
52.5°	5.8	4.9	14.6	4.9	5.8
55°	4.9	3.9	5.8	3.9	4.9
57.5°	3.9	2.9	2.9	2.9	3.9
60°	2.9	2.9	1.9	2.9	2.9
62.5°	2.9	1.9	1.9	1.9	2.9
65°	1.9	1.9	1.0	1.9	1.9
67.5°	1.9	1.0	1.0	1.0	1.9
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	0.0	1.0	1.0
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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