

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: P886186

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDSLB-468LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDSLB-468LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D 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: 521.4 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

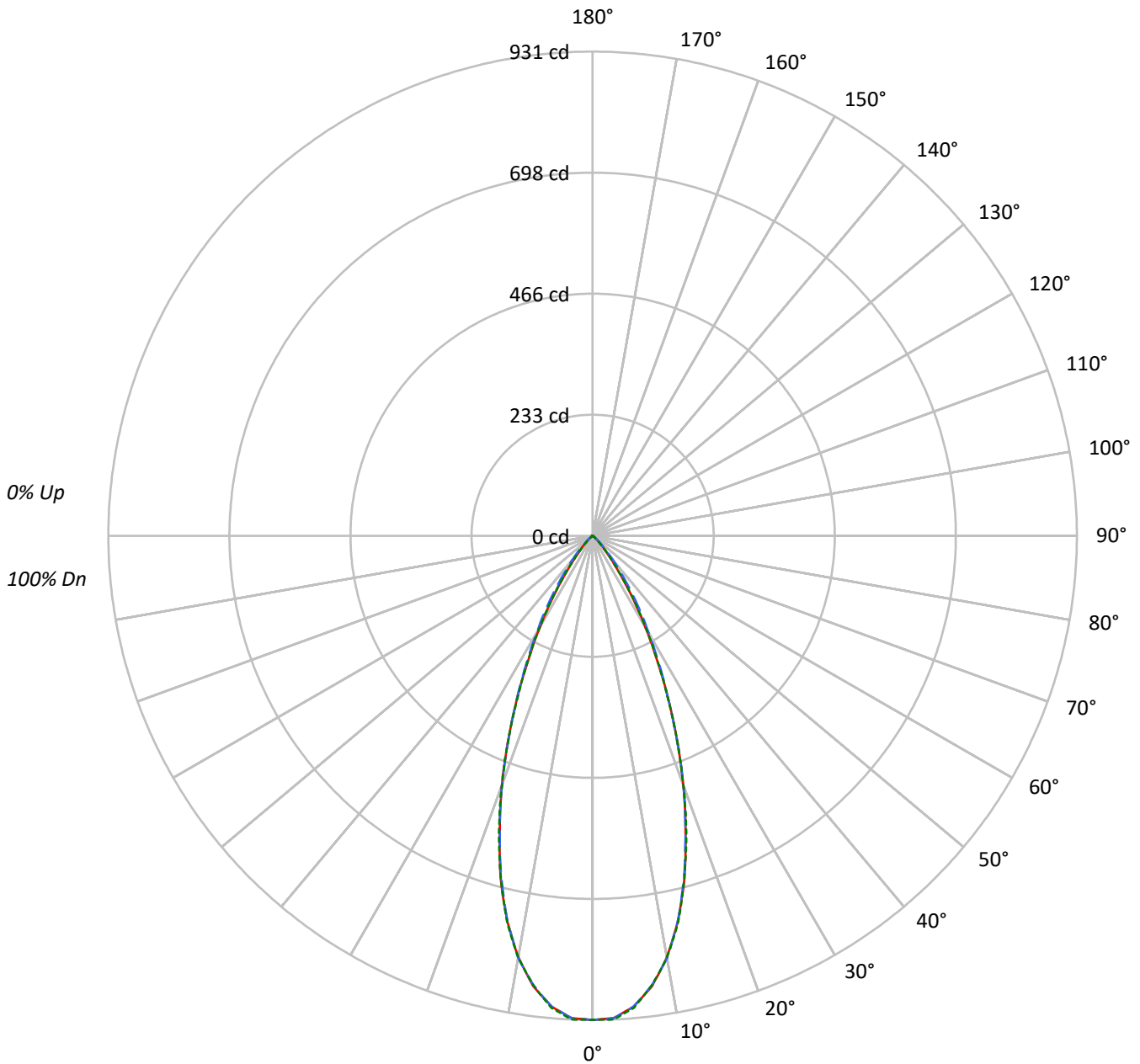
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				
RW	70	50	30	10	70	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	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	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80		
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75		
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	73	71		
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68		
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64		
9	81	72	67	63	79	71	66	63	71	66	63	70	66	63	69	65	62	61		
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	360684	360684	360684
5°	353310	353310	354321
10°	323674	324343	323989
15°	273718	272313	273356
20°	210308	210308	210308
25°	146225	146225	144728
30°	90653	96067	91055
35°	46264	57759	47920
40°	21043	31109	21903
45°	8549	13262	8549
50°	3135	6270	3135
55°	1757	1757	1757
60°	697	697	697
65°	825	825	825
70°	1020	0	1020
75°	1347	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13262 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	16.1
10°-20°	186.8	35.8
20°-30°	157.3	30.2
30°-40°	72.3	13.9
40°-50°	17.3	3.3
50°-60°	2.6	0.5
60°-70°	0.9	0.2
70°-80°	0.2	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°	428.1	82.1
0°-40°	500.4	96.0
0°-60°	520.3	99.8
0°-90°	521.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	908	909	908	909	911	84
15°	682	684	679	679	681	187
25°	342	343	342	343	338	156
35°	98	112	122	113	101	66
45°	16	19	24	20	16	14
55°	3	3	3	3	3	2
65°	1	1	1	1	1	1
75°	1	0	0	0	0	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°	930.8	930.8	930.8	930.8	930.8
2.5°	928.2	927.3	928.2	929.1	930.8
5°	908.3	909.1	908.3	909.1	910.9
7.5°	873.6	874.5	871.9	872.8	871.9
10°	822.6	824.3	824.3	824.3	823.4
12.5°	758.5	758.5	757.6	755.0	760.2
15°	682.3	684.0	678.8	678.8	681.4
17.5°	594.0	594.8	593.1	598.3	599.2
20°	510.0	510.9	510.0	509.1	510.0
22.5°	422.5	426.0	421.7	427.7	423.4
25°	342.0	342.9	342.0	342.9	338.5
27.5°	265.0	266.7	274.5	270.1	266.7
30°	202.6	206.9	214.7	206.9	203.5
32.5°	147.2	157.6	166.2	160.2	149.8
35°	97.8	111.7	122.1	112.6	101.3
37.5°	64.9	71.9	87.5	73.6	65.8
40°	41.6	46.8	61.5	47.6	43.3
42.5°	27.7	31.2	39.8	32.0	28.6
45°	15.6	19.0	24.2	19.9	15.6
47.5°	7.8	10.4	16.5	10.4	7.8
50°	5.2	5.2	10.4	5.2	5.2
52.5°	3.5	3.5	5.2	3.5	3.5
55°	2.6	2.6	2.6	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	0.9	0.0	0.9	0.9
72.5°	0.9	0.0	0.0	0.0	0.9
75°	0.9	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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