

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: P886162

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-97)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 519.9 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

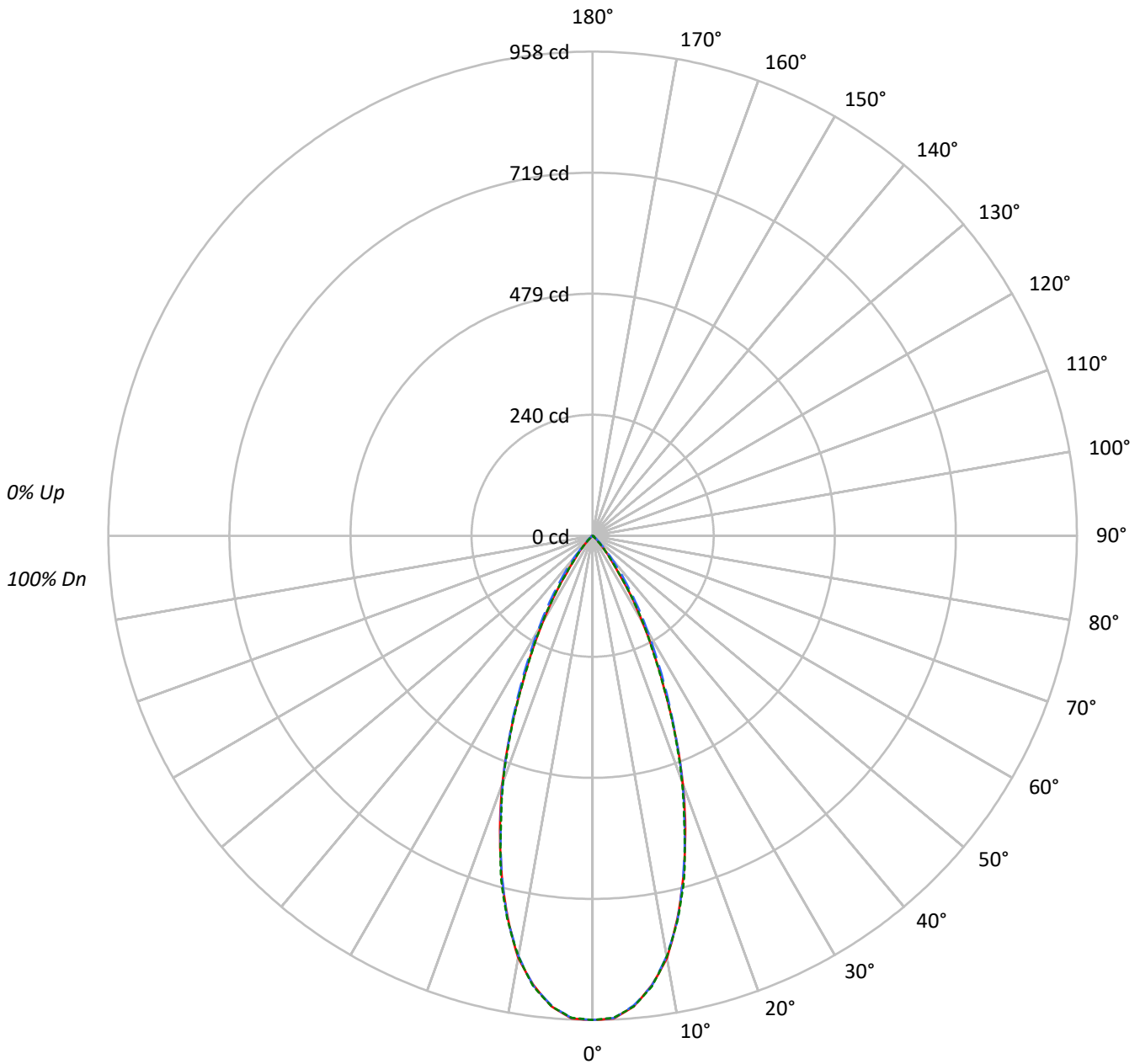
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	108	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	98	92	88	84	90	87	83	88	85	83	87	84	82	80								
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76								
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72								
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68								
8	85	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66	65								
9	81	73	67	64	80	72	67	64	71	67	64	71	66	63	70	66	63	62								
10	78	69	64	61	77	69	64	61	68	64	61	68	63	61	67	63	60	59								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	92807	92807	92807
5°	90895	90720	90895
10°	83398	83054	83142
15°	69673	69583	70215
20°	53814	53629	53350
25°	35979	37230	35883
30°	21936	24140	22328
35°	10372	13979	10691
40°	4869	7246	4641
45°	1466	2946	1466
50°	407	1085	407
55°	152	152	152
60°	0	0	0
65°	0	0	0
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: 2946 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	16.6
10°-20°	190.9	36.7
20°-30°	158.1	30.4
30°-40°	68.9	13.3
40°-50°	14.4	2.8
50°-60°	1.2	0.2
60°-70°	0.0	0.0
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°	435.4	83.8
0°-40°	504.3	97.0
0°-60°	519.9	100.0
0°-90°	519.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	519.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	935	936	933	934	935	86
15°	695	693	694	697	700	191
25°	337	346	348	341	336	156
35°	88	104	118	103	90	62
45°	11	16	22	16	11	11
55°	1	1	1	1	1	1
65°	0	0	0	0	0	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°	958.0	958.0	958.0	958.0	958.0
2.5°	956.2	955.3	955.3	955.3	954.4
5°	934.7	935.6	932.9	933.8	934.7
7.5°	897.1	897.1	898.0	899.8	898.9
10°	847.8	844.3	844.3	846.0	845.2
12.5°	775.3	777.1	777.1	780.7	778.0
15°	694.7	693.0	693.8	697.4	700.1
17.5°	609.7	608.8	605.2	606.1	603.4
20°	522.0	520.2	520.2	516.6	517.5
22.5°	428.8	431.5	429.7	430.6	425.3
25°	336.6	345.6	348.3	341.1	335.7
27.5°	262.3	266.8	276.6	269.5	259.6
30°	196.1	205.0	215.8	206.8	199.6
32.5°	142.4	154.0	163.8	155.8	143.2
35°	87.7	103.9	118.2	103.0	90.4
37.5°	57.3	66.3	84.2	65.4	57.3
40°	38.5	42.1	57.3	43.0	36.7
42.5°	23.3	26.9	34.0	27.8	22.4
45°	10.7	16.1	21.5	16.1	10.7
47.5°	4.5	7.2	14.3	6.3	4.5
50°	2.7	3.6	7.2	3.6	2.7
52.5°	1.8	1.8	2.7	1.8	1.8
55°	0.9	0.9	0.9	0.9	0.9
57.5°	0.0	0.0	0.9	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
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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