

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: P886185

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDSLB-468LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886185
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-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 504.7 lumens
Efficiency: N/A
Efficacy: 63.1 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

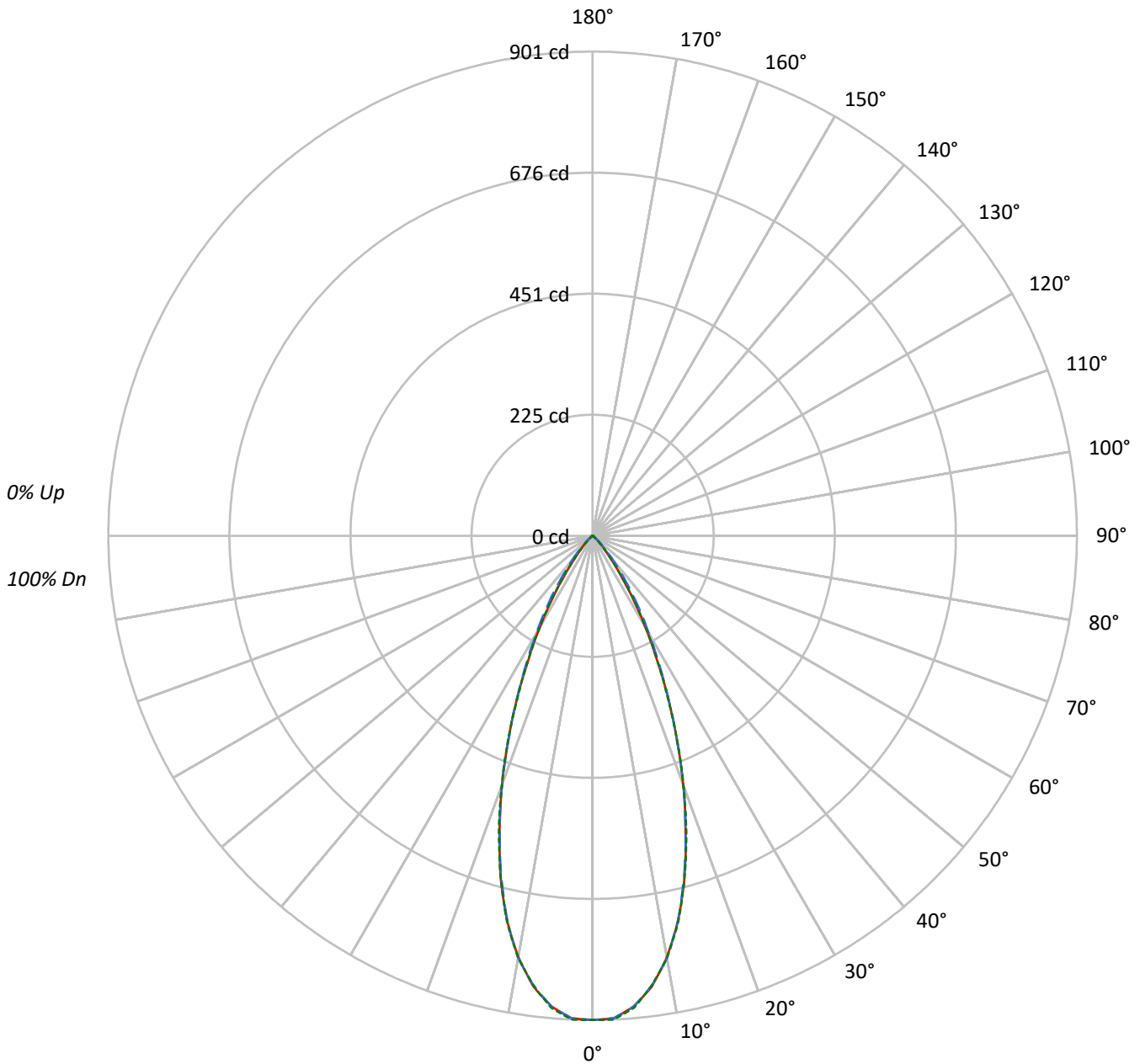
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	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	74	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	80	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°	349176	349176	349176
5°	342030	342030	343002
10°	313326	313995	313641
15°	264972	263648	264651
20°	203586	203586	203586
25°	141565	141565	140111
30°	87744	93024	88147
35°	44798	55914	46406
40°	20335	30098	21195
45°	8275	12878	8275
50°	3014	6089	3014
55°	1689	1689	1689
60°	620	620	620
65°	734	734	734
70°	906	0	906
75°	1198	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 12878 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	16.1
10°-20°	180.9	35.8
20°-30°	152.2	30.2
30°-40°	70.0	13.9
40°-50°	16.8	3.3
50°-60°	2.5	0.5
60°-70°	0.8	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°	414.4	82.1
0°-40°	484.4	96.0
0°-60°	503.7	99.8
0°-90°	504.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	504.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	879	880	879	880	882	81
15°	660	662	657	657	660	181
25°	331	332	331	332	328	151
35°	95	108	118	109	98	64
45°	15	18	24	19	15	14
55°	2	2	2	2	2	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°	901.1	901.1	901.1	901.1	901.1
2.5°	898.6	897.7	898.6	899.4	901.1
5°	879.3	880.1	879.3	880.1	881.8
7.5°	845.7	846.6	844.1	844.9	844.1
10°	796.3	798.0	798.0	798.0	797.1
12.5°	734.3	734.3	733.4	730.9	735.9
15°	660.5	662.2	657.2	657.2	659.7
17.5°	575.0	575.8	574.2	579.2	580.0
20°	493.7	494.5	493.7	492.9	493.7
22.5°	409.0	412.4	408.2	414.1	409.9
25°	331.1	331.9	331.1	331.9	327.7
27.5°	256.5	258.2	265.7	261.5	258.2
30°	196.1	200.3	207.9	200.3	197.0
32.5°	142.5	152.6	160.9	155.1	145.0
35°	94.7	108.1	118.2	109.0	98.1
37.5°	62.9	69.6	84.7	71.2	63.7
40°	40.2	45.3	59.5	46.1	41.9
42.5°	26.8	30.2	38.6	31.0	27.7
45°	15.1	18.4	23.5	19.3	15.1
47.5°	7.5	10.1	15.9	10.1	7.5
50°	5.0	5.0	10.1	5.0	5.0
52.5°	3.4	3.4	5.0	3.4	3.4
55°	2.5	2.5	2.5	2.5	2.5
57.5°	1.7	1.7	1.7	1.7	1.7
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	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.0	0.8	0.8
72.5°	0.8	0.0	0.0	0.0	0.8
75°	0.8	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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