

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: P886183

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-96)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

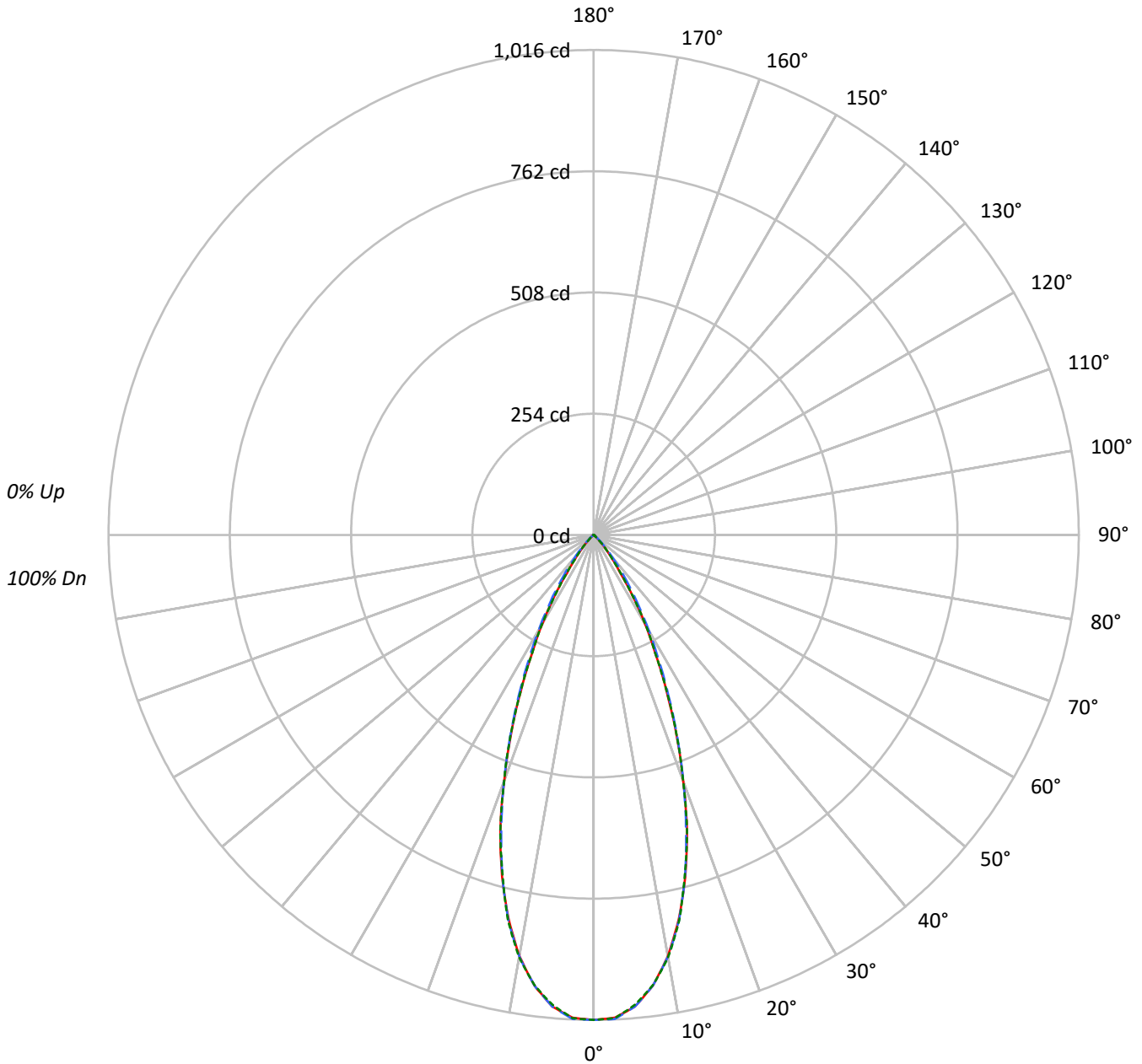
Lumens per Lamp: N/A
Luminaire Lumens: 556.7 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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					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					100			
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95					95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89					89			
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85					85			
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80					80			
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76					76			
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72					72			
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68					68			
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65					65			
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62					62			
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59					59			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	98435	98435	98435
5°	96468	96468	96108
10°	88110	88198	88385
15°	74317	74136	73946
20°	56526	56629	56526
25°	38513	39603	38716
30°	24140	25695	24352
35°	11507	15114	11945
40°	5501	7727	5387
45°	1904	3302	1904
50°	693	1251	693
55°	321	321	321
60°	174	174	174
65°	206	206	206
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: 3302 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	16.4
10°-20°	202.8	36.4
20°-30°	168.5	30.3
30°-40°	74.5	13.4
40°-50°	16.6	3.0
50°-60°	2.0	0.4
60°-70°	0.7	0.1
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°	462.8	83.1
0°-40°	537.4	96.5
0°-60°	556.0	99.9
0°-90°	556.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	556.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	992	992	992	991	988	92
15°	741	736	739	736	737	203
25°	360	368	370	369	362	166
35°	97	113	128	113	101	68
45°	14	18	24	18	14	14
55°	2	2	2	2	2	2
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°	1016.1	1016.1	1016.1	1016.1	1016.1
2.5°	1012.4	1013.3	1015.2	1012.4	1013.3
5°	992.0	992.0	992.0	991.1	988.3
7.5°	952.2	951.3	952.2	950.3	951.3
10°	895.7	898.5	896.6	896.6	898.5
12.5°	823.4	831.8	826.2	825.3	828.1
15°	741.0	736.4	739.2	736.4	737.3
17.5°	650.2	641.0	642.8	646.5	650.2
20°	548.3	550.2	549.3	550.2	548.3
22.5°	452.9	458.5	456.6	456.6	454.8
25°	360.3	367.7	370.5	368.7	362.2
27.5°	279.7	284.4	294.6	285.3	278.8
30°	215.8	220.5	229.7	219.5	217.7
32.5°	154.7	164.9	174.1	163.9	151.9
35°	97.3	113.0	127.8	113.0	101.0
37.5°	63.9	72.2	91.7	72.2	65.8
40°	43.5	48.2	61.1	47.2	42.6
42.5°	26.9	31.5	38.9	30.6	26.9
45°	13.9	18.5	24.1	17.6	13.9
47.5°	7.4	8.3	15.7	9.3	6.5
50°	4.6	4.6	8.3	4.6	4.6
52.5°	2.8	2.8	3.7	2.8	2.8
55°	1.9	1.9	1.9	1.9	1.9
57.5°	0.9	0.9	1.9	0.9	0.9
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	0.0	0.0	0.9
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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