

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: P886100

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMB-468LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMB-468LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 363.0 lumens
Efficiency: N/A
Efficacy: 45.4 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

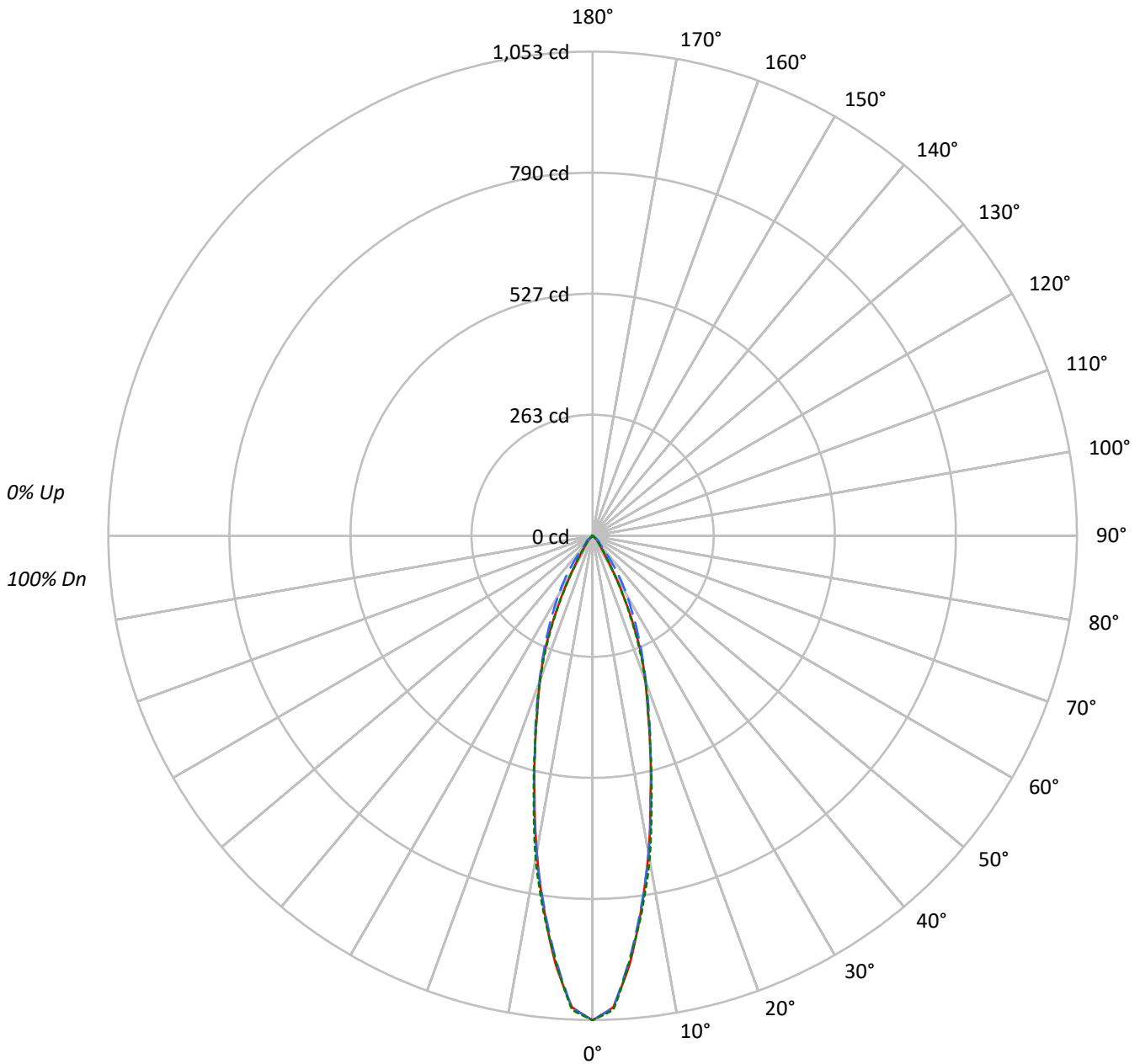
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91					91			
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	97	90	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78					78			
6	94	86	81	78	92	86	81	77	84	80	77	83	79	76	82	78	76	75					75			
7	90	82	77	74	89	82	77	74	81	76	73	80	76	73	79	75	73	72					72			
8	87	79	74	71	86	78	74	70	77	73	70	77	73	70	76	72	70	69					69			
9	84	76	71	68	83	75	71	67	74	70	67	74	70	67	73	69	67	66					66			
10	81	73	68	65	80	72	68	65	72	67	65	71	67	64	70	67	64	63					63			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	408192	408192	408192
5°	363112	359184	360506
10°	275237	275867	280825
15°	194126	195129	194808
20°	137649	139380	137978
25°	86067	98253	83545
30°	38257	66401	37541
35°	16273	38506	17077
40°	9763	15277	9763
45°	5535	10577	4603
50°	482	8078	482
55°	0	1689	540
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: 10577 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	22.4
10°-20°	135.9	37.4
20°-30°	98.6	27.2
30°-40°	35.5	9.8
40°-50°	10.4	2.9
50°-60°	1.3	0.3
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°	315.9	87.0
0°-40°	351.4	96.8
0°-60°	363.0	100.0
0°-90°	363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	934	925	923	931	927	81
15°	484	484	486	481	486	135
25°	201	222	230	216	195	92
35°	34	47	81	47	36	25
45°	10	13	19	13	8	7
55°	0	1	2	1	1	0
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°	1053.4	1053.4	1053.4	1053.4	1053.4
2.5°	1026.6	1024.0	1027.4	1028.2	1032.4
5°	933.5	925.1	923.4	931.0	926.8
7.5°	815.2	816.1	811.9	821.1	821.9
10°	699.5	700.3	701.1	704.5	713.7
12.5°	582.1	584.6	585.4	583.7	591.3
15°	483.9	483.9	486.4	480.6	485.6
17.5°	399.2	402.6	406.8	401.7	400.9
20°	333.8	336.3	338.0	337.2	334.6
22.5°	274.3	279.3	281.0	274.3	265.0
25°	201.3	222.3	229.8	215.5	195.4
27.5°	136.7	165.2	184.5	159.4	135.0
30°	85.5	109.9	148.4	109.9	83.9
32.5°	52.0	68.8	114.1	71.3	54.5
35°	34.4	47.0	81.4	47.0	36.1
37.5°	25.2	32.7	47.8	32.7	26.0
40°	19.3	22.6	30.2	23.5	19.3
42.5°	15.1	17.6	22.6	17.6	14.3
45°	10.1	13.4	19.3	13.4	8.4
47.5°	1.7	7.5	16.8	6.7	4.2
50°	0.8	0.8	13.4	2.5	0.8
52.5°	0.8	0.8	7.5	0.8	0.8
55°	0.0	0.8	2.5	0.8	0.8
57.5°	0.0	0.0	0.0	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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