

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: P886112

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMW-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-89)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMW-468LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

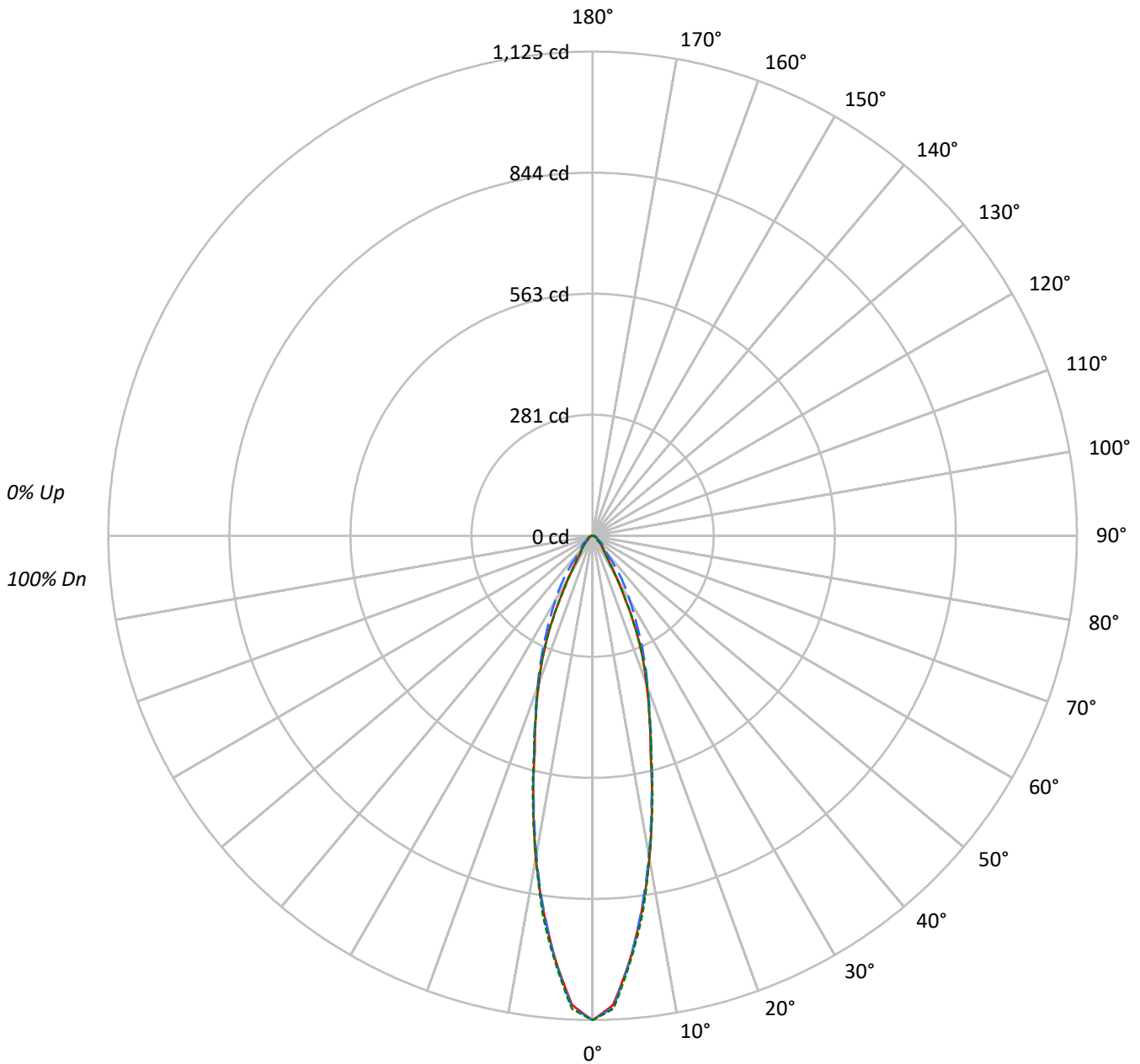
Lumens per Lamp: N/A
Luminaire Lumens: 444.5 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82																			
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77																			
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73																			
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69																			
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66																			
8	83	74	69	65	82	73	68	65	72	68	64	71	67	64	71	67	64	63																			
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60																			
10	77	68	62	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	436053	436053	436053
5°	385129	385479	387229
10°	299397	296249	297980
15°	208287	211175	211175
20°	150597	153937	152081
25°	98766	110994	98766
30°	48056	77319	46445
35°	24126	49954	23700
40°	18109	22207	18109
45°	14248	19125	13755
50°	9163	17241	9163
55°	9053	9661	9053
60°	8990	8990	8990
65°	8252	8252	8252
70°	7138	8157	7138
75°	6737	6737	6737
80°	6025	6025	6025
85°	4001	4001	4001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19125 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	19.6
10°-20°	147.6	33.2
20°-30°	112.0	25.2
30°-40°	47.0	10.6
40°-50°	22.2	5.0
50°-60°	12.8	2.9
60°-70°	9.1	2.1
70°-80°	4.9	1.1
80°-90°	1.6	0.4
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°	346.9	78.0
0°-40°	393.9	88.6
0°-60°	428.9	96.5
0°-90°	444.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	444.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	990	987	991	990	996	87
15°	519	521	526	526	526	147
25°	231	250	260	250	231	103
35°	51	64	106	64	50	36
45°	26	29	35	29	25	19
55°	13	13	14	13	13	12
65°	9	9	9	9	9	9
75°	4	4	4	4	4	5
85°	1	2	1	2	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.3	1125.3	1125.3	1125.3	1125.3
2.5°	1091.2	1093.9	1095.7	1100.2	1100.2
5°	990.1	987.4	991.0	990.1	995.5
7.5°	877.3	878.2	873.7	879.1	887.1
10°	760.9	753.8	752.9	756.4	757.3
12.5°	636.5	632.9	632.0	632.0	641.0
15°	519.2	521.0	526.4	525.5	526.4
17.5°	437.8	443.1	443.1	440.4	437.8
20°	365.2	369.7	373.3	369.7	368.8
22.5°	299.9	310.6	315.1	312.4	301.7
25°	231.0	249.8	259.6	249.8	231.0
27.5°	157.6	188.9	210.4	188.0	157.6
30°	107.4	130.7	172.8	128.9	103.8
32.5°	70.7	88.6	138.8	88.6	71.6
35°	51.0	64.5	105.6	63.6	50.1
37.5°	42.1	50.1	66.2	49.2	42.1
40°	35.8	38.5	43.9	39.4	35.8
42.5°	31.3	33.1	38.5	34.0	31.3
45°	26.0	28.6	34.9	28.6	25.1
47.5°	16.1	22.4	31.3	22.4	16.1
50°	15.2	15.2	28.6	15.2	15.2
52.5°	14.3	14.3	21.5	14.3	14.3
55°	13.4	13.4	14.3	13.4	13.4
57.5°	12.5	12.5	12.5	12.5	12.5
60°	11.6	11.6	11.6	11.6	11.6
62.5°	9.8	10.7	10.7	10.7	9.8
65°	9.0	9.0	9.0	9.0	9.0
67.5°	8.1	8.1	8.1	8.1	8.1
70°	6.3	7.2	7.2	7.2	6.3
72.5°	5.4	5.4	5.4	6.3	5.4
75°	4.5	4.5	4.5	4.5	4.5
77.5°	3.6	3.6	3.6	3.6	3.6
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.8	2.7	1.8	2.7	1.8
85°	0.9	1.8	0.9	1.8	0.9
87.5°	0.9	0.9	0.9	0.9	0.9
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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