

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: P886163

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886163
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-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 537.7 lumens
Efficiency: N/A
Efficacy: 67.2 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

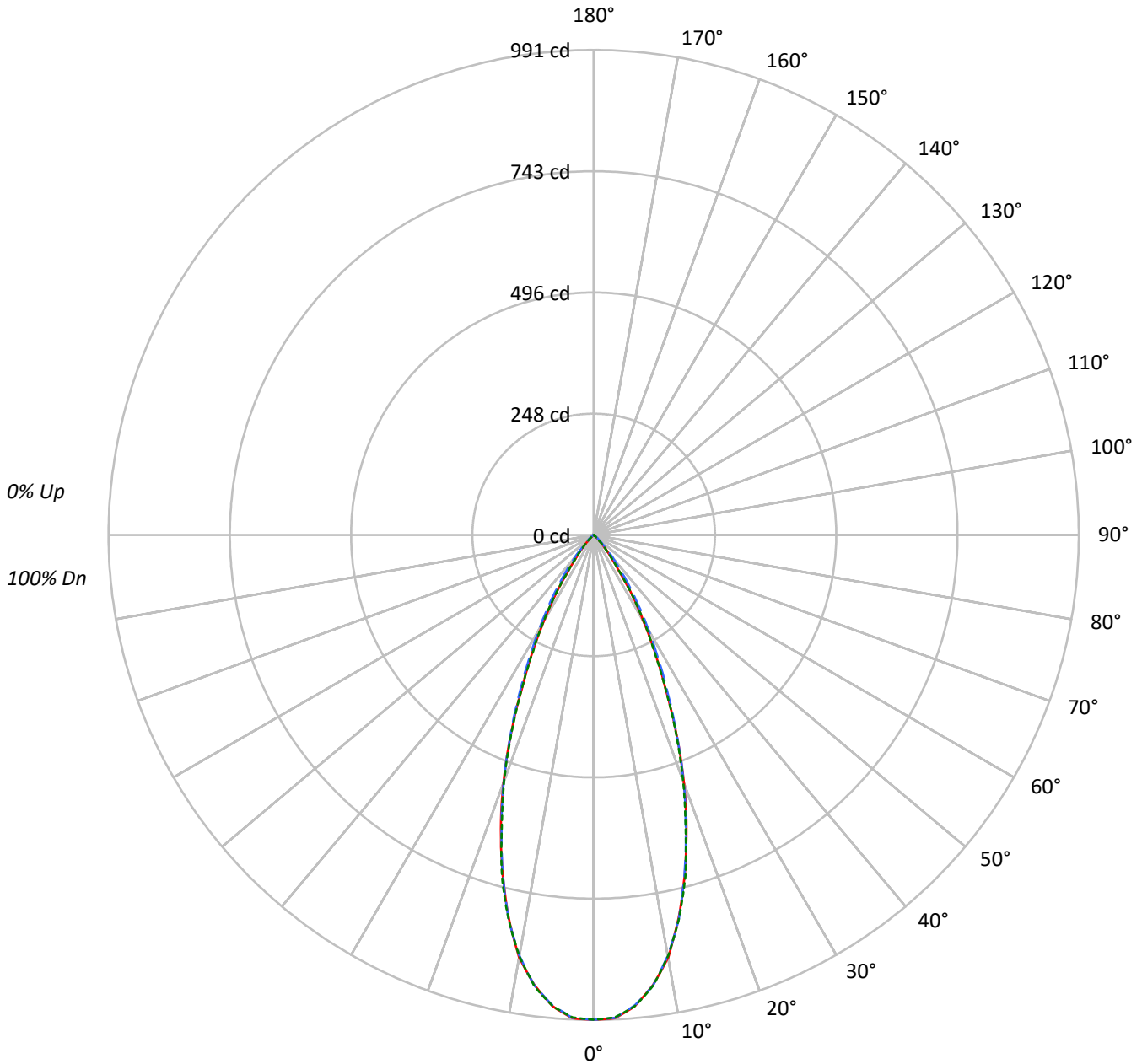
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	95974	95974	95974
5°	93997	93822	93997
10°	86251	85887	85975
15°	72060	71970	72612
20°	55649	55454	55175
25°	37208	38502	37112
30°	22686	24956	23100
35°	10726	14452	11058
40°	5033	7499	4806
45°	1521	3041	1521
50°	422	1115	422
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: 3041 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	16.6
10°-20°	197.5	36.7
20°-30°	163.6	30.4
30°-40°	71.2	13.3
40°-50°	14.9	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°	450.3	83.8
0°-40°	521.6	97.0
0°-60°	537.7	100.0
0°-90°	537.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	537.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	967	968	965	966	967	89
15°	718	717	718	721	724	198
25°	348	357	360	353	347	161
35°	91	107	122	106	94	64
45°	11	17	22	17	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°	990.7	990.7	990.7	990.7	990.7
2.5°	988.8	987.9	987.9	987.9	987.0
5°	966.6	967.5	964.8	965.7	966.6
7.5°	927.7	927.7	928.7	930.5	929.6
10°	876.8	873.1	873.1	875.0	874.0
12.5°	801.8	803.7	803.7	807.4	804.6
15°	718.5	716.6	717.6	721.3	724.0
17.5°	630.5	629.6	625.9	626.8	624.0
20°	539.8	537.9	537.9	534.2	535.2
22.5°	443.5	446.3	444.4	445.3	439.8
25°	348.1	357.4	360.2	352.8	347.2
27.5°	271.3	275.9	286.1	278.7	268.5
30°	202.8	212.0	223.1	213.9	206.5
32.5°	147.2	159.3	169.4	161.1	148.1
35°	90.7	107.4	122.2	106.5	93.5
37.5°	59.3	68.5	87.0	67.6	59.3
40°	39.8	43.5	59.3	44.4	38.0
42.5°	24.1	27.8	35.2	28.7	23.1
45°	11.1	16.7	22.2	16.7	11.1
47.5°	4.6	7.4	14.8	6.5	4.6
50°	2.8	3.7	7.4	3.7	2.8
52.5°	1.9	1.9	2.8	1.9	1.9
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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