

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: P886160

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886160
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-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 486.9 lumens
Efficiency: N/A
Efficacy: 60.9 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

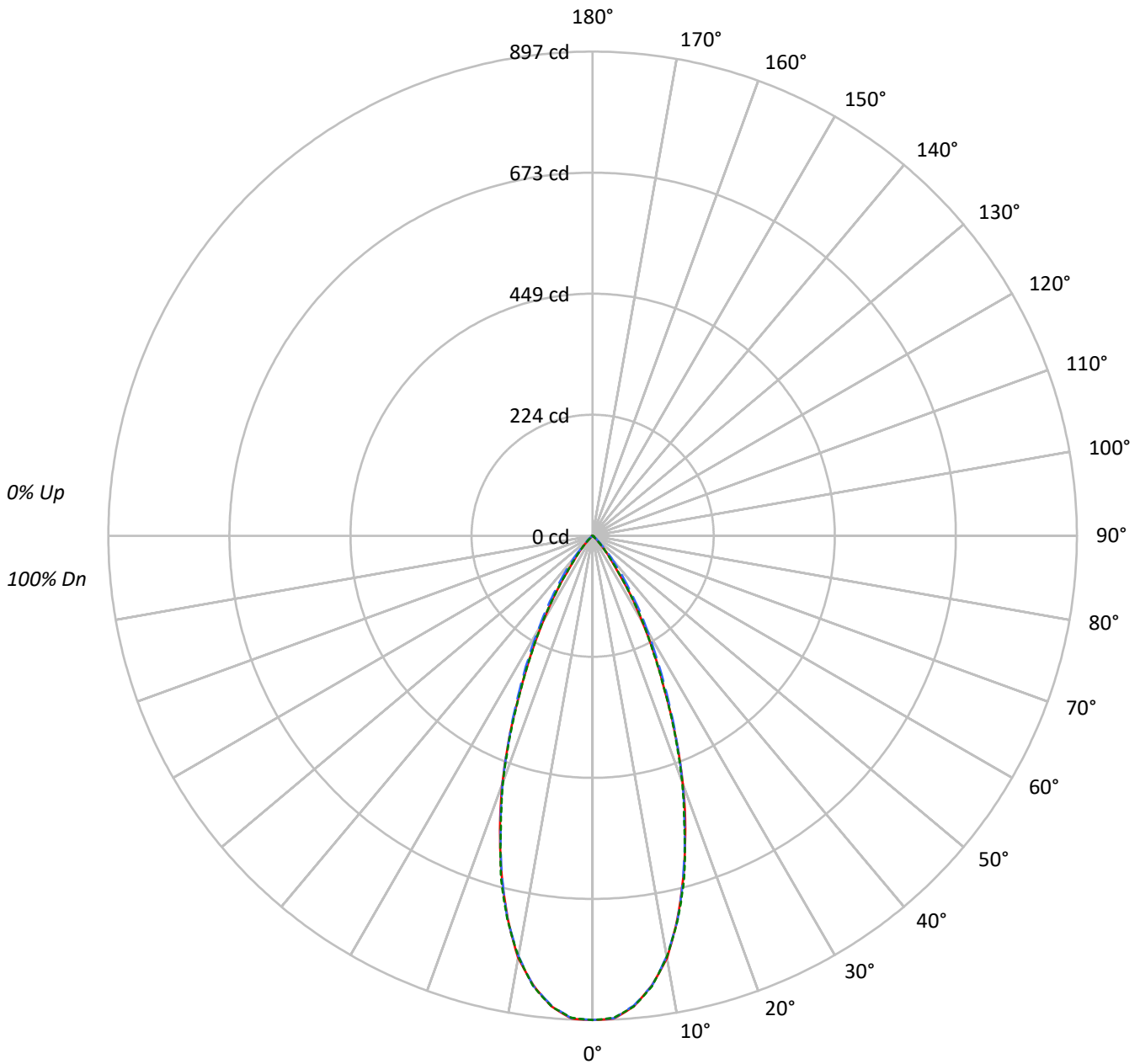
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	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°	86917	86917	86917
5°	85129	84963	85129
10°	78116	77781	77870
15°	65261	65170	65762
20°	50392	50227	49969
25°	33702	34868	33606
30°	20538	22607	20918
35°	9721	13092	10017
40°	4565	6791	4350
45°	1384	2754	1384
50°	377	1010	377
55°	135	135	135
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: 2754 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	16.6
10°-20°	178.8	36.7
20°-30°	148.1	30.4
30°-40°	64.5	13.2
40°-50°	13.5	2.8
50°-60°	1.1	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°	407.8	83.8
0°-40°	472.4	97.0
0°-60°	486.9	100.0
0°-90°	486.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	486.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	875	876	874	875	875	81
15°	651	649	650	653	656	179
25°	315	324	326	320	314	146
35°	82	97	111	96	85	58
45°	10	15	20	15	10	10
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°	897.2	897.2	897.2	897.2	897.2
2.5°	895.5	894.7	894.7	894.7	893.8
5°	875.4	876.2	873.7	874.6	875.4
7.5°	840.2	840.2	841.0	842.7	841.9
10°	794.1	790.7	790.7	792.4	791.6
12.5°	726.1	727.8	727.8	731.2	728.7
15°	650.7	649.0	649.8	653.2	655.7
17.5°	571.0	570.2	566.8	567.7	565.2
20°	488.8	487.2	487.2	483.8	484.7
22.5°	401.6	404.2	402.5	403.3	398.3
25°	315.3	323.7	326.2	319.5	314.4
27.5°	245.7	249.9	259.1	252.4	243.2
30°	183.6	192.0	202.1	193.7	187.0
32.5°	133.3	144.2	153.4	145.9	134.2
35°	82.2	97.3	110.7	96.4	84.7
37.5°	53.7	62.0	78.8	61.2	53.7
40°	36.1	39.4	53.7	40.2	34.4
42.5°	21.8	25.2	31.9	26.0	21.0
45°	10.1	15.1	20.1	15.1	10.1
47.5°	4.2	6.7	13.4	5.9	4.2
50°	2.5	3.4	6.7	3.4	2.5
52.5°	1.7	1.7	2.5	1.7	1.7
55°	0.8	0.8	0.8	0.8	0.8
57.5°	0.0	0.0	0.8	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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