

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: P886229

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-106)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

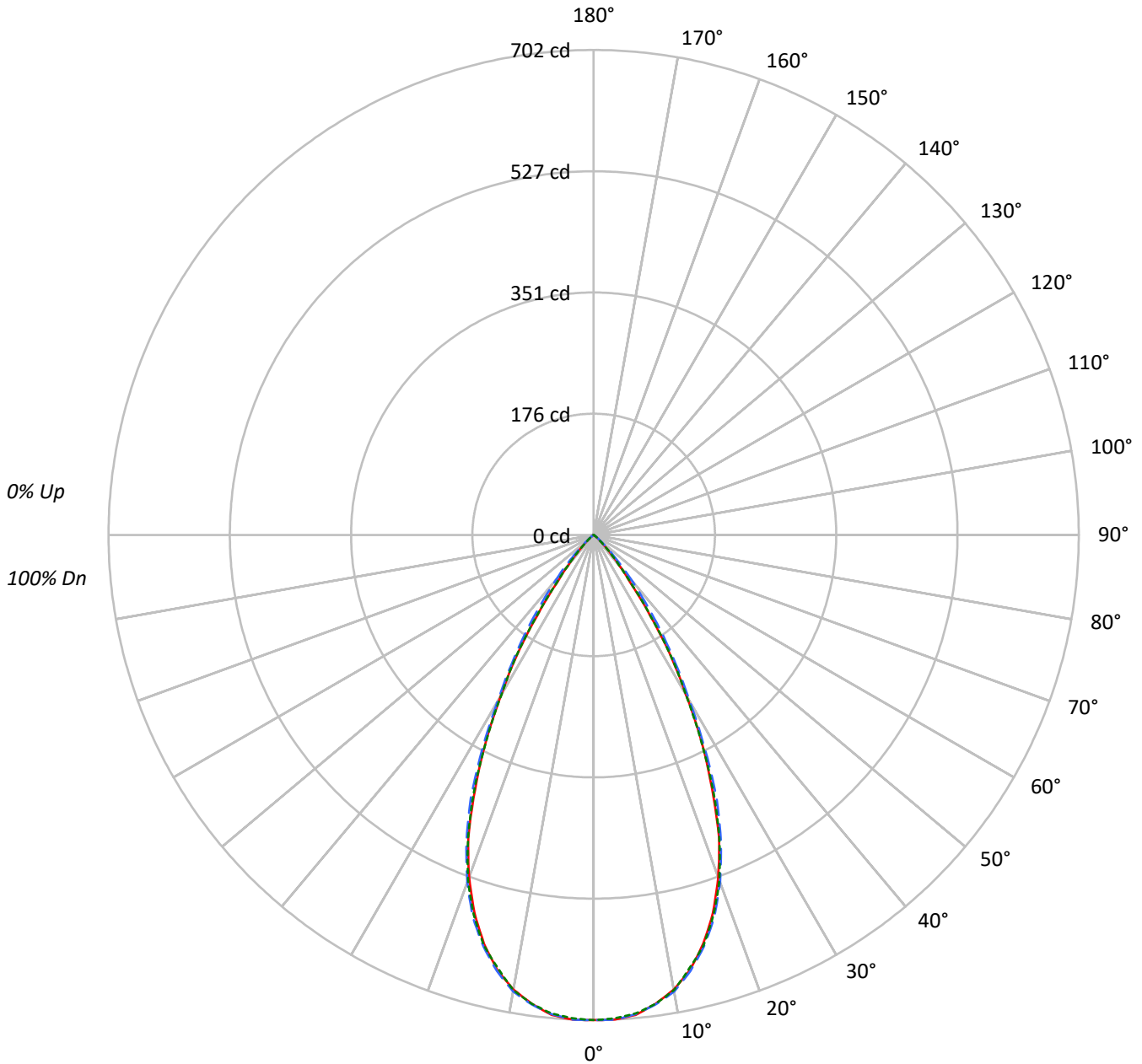
Lumens per Lamp: N/A
Luminaire Lumens: 545.6 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88																			
3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83																			
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77																			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73																			
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68																			
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64																			
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61																			
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	61	59	57																			
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	272141	272141	272141
5°	271274	270885	270496
10°	262921	264063	263276
15°	245796	247361	246558
20°	217277	220493	219297
25°	173247	179917	175342
30°	119871	124211	119423
35°	67268	79236	68639
40°	29086	42845	29086
45°	11234	17098	11234
50°	4099	5848	3496
55°	676	1959	1284
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: 17098 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	12.0
10°-20°	170.8	31.3
20°-30°	186.1	34.1
30°-40°	98.5	18.1
40°-50°	22.2	4.1
50°-60°	2.3	0.4
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°	422.5	77.4
0°-40°	521.1	95.5
0°-60°	545.6	100.0
0°-90°	545.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	697	695	696	695	695	66
15°	613	613	617	614	615	170
25°	405	417	421	417	410	183
35°	142	157	168	156	145	92
45°	20	23	31	23	20	19
55°	1	2	3	2	2	2
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°	702.3	702.3	702.3	702.3	702.3
2.5°	702.3	701.3	702.3	701.3	700.3
5°	697.4	695.4	696.4	695.4	695.4
7.5°	684.7	684.7	685.7	685.7	684.7
10°	668.2	670.1	671.1	670.1	669.1
12.5°	644.8	642.9	646.7	644.8	641.9
15°	612.7	612.7	616.6	613.6	614.6
17.5°	573.7	578.6	580.5	576.6	576.6
20°	526.9	531.8	534.7	534.7	531.8
22.5°	474.3	482.1	481.2	481.2	475.3
25°	405.2	416.9	420.8	416.9	410.1
27.5°	339.0	338.0	347.7	342.9	337.0
30°	267.9	272.7	277.6	273.7	266.9
32.5°	207.5	215.3	220.1	213.3	209.4
35°	142.2	156.8	167.5	155.8	145.1
37.5°	87.7	101.3	120.8	103.2	90.6
40°	57.5	63.3	84.7	64.3	57.5
42.5°	36.0	39.9	54.5	39.9	36.0
45°	20.5	23.4	31.2	23.4	20.5
47.5°	11.7	12.7	16.6	12.7	10.7
50°	6.8	7.8	9.7	6.8	5.8
52.5°	2.9	3.9	4.9	3.9	2.9
55°	1.0	1.9	2.9	1.9	1.9
57.5°	0.0	1.0	1.0	1.0	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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