

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: P886234

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMW-468LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-101)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMW-468LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 565.5 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

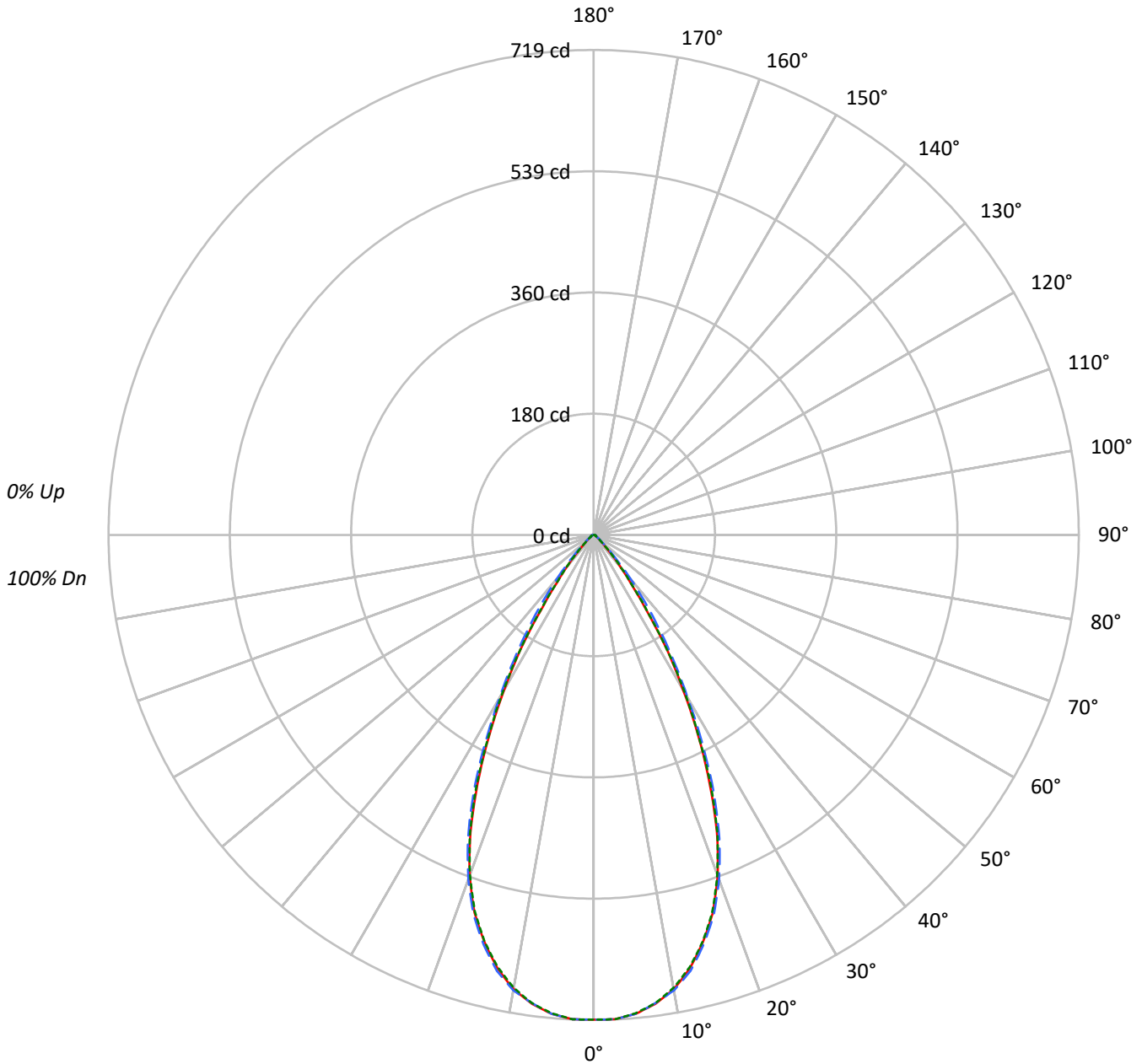
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76					76			
5	93	85	79	75	92	84	79	75	82	78	74	81	77	73	79	76	73	71					71			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67					67			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63					63			
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59					59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56					56			
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53					53			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	278496	278496	278496
5°	277304	277304	276915
10°	269020	269768	268233
15°	250811	252375	250450
20°	221689	224081	220864
25°	174059	179874	175726
30°	118528	124614	120721
35°	64477	78763	66322
40°	31514	42390	31514
45°	13317	18687	13865
50°	7053	8801	7053
55°	4594	5270	4594
60°	3797	3797	3797
65°	3576	3576	3576
70°	3286	3286	3286
75°	2845	4342	2845
80°	4240	4240	4240
85°	4446	4446	4446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18687 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	11.9
10°-20°	174.2	30.8
20°-30°	186.9	33.1
30°-40°	97.9	17.3
40°-50°	25.1	4.4
50°-60°	6.9	1.2
60°-70°	4.0	0.7
70°-80°	2.6	0.5
80°-90°	0.8	0.1
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°	428.2	75.7
0°-40°	526.1	93.0
0°-60°	558.1	98.7
0°-90°	565.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	713	713	713	712	712	67
15°	625	626	629	625	624	174
25°	407	415	421	414	411	184
35°	136	154	166	153	140	91
45°	24	27	34	27	25	22
55°	7	7	8	7	7	6
65°	4	4	4	4	4	4
75°	2	3	3	3	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	718.7	718.7	718.7	718.7	718.7
2.5°	718.7	718.7	718.7	717.7	718.7
5°	712.9	712.9	712.9	711.9	711.9
7.5°	701.2	701.2	700.2	701.2	700.2
10°	683.7	683.7	685.6	683.7	681.7
12.5°	658.3	659.3	662.2	658.3	656.4
15°	625.2	626.2	629.1	625.2	624.3
17.5°	587.2	591.1	591.1	588.2	585.3
20°	537.6	539.5	543.4	539.5	535.6
22.5°	477.2	486.9	486.9	482.1	479.1
25°	407.1	414.9	420.7	413.9	411.0
27.5°	336.0	342.8	348.6	342.8	337.9
30°	264.9	271.7	278.5	274.6	269.8
32.5°	203.5	211.3	219.1	212.3	204.5
35°	136.3	153.9	166.5	152.9	140.2
37.5°	90.6	100.3	121.7	102.3	91.5
40°	62.3	65.2	83.8	65.2	62.3
42.5°	39.9	43.8	54.5	43.8	40.9
45°	24.3	27.3	34.1	27.3	25.3
47.5°	16.6	17.5	20.5	17.5	16.6
50°	11.7	11.7	14.6	12.7	11.7
52.5°	8.8	8.8	10.7	9.7	8.8
55°	6.8	6.8	7.8	6.8	6.8
57.5°	4.9	5.8	5.8	5.8	4.9
60°	4.9	4.9	4.9	4.9	4.9
62.5°	3.9	4.9	4.9	4.9	3.9
65°	3.9	3.9	3.9	3.9	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.9	2.9	2.9	2.9	2.9
75°	1.9	2.9	2.9	2.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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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