

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P886435

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-105)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 573.8 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

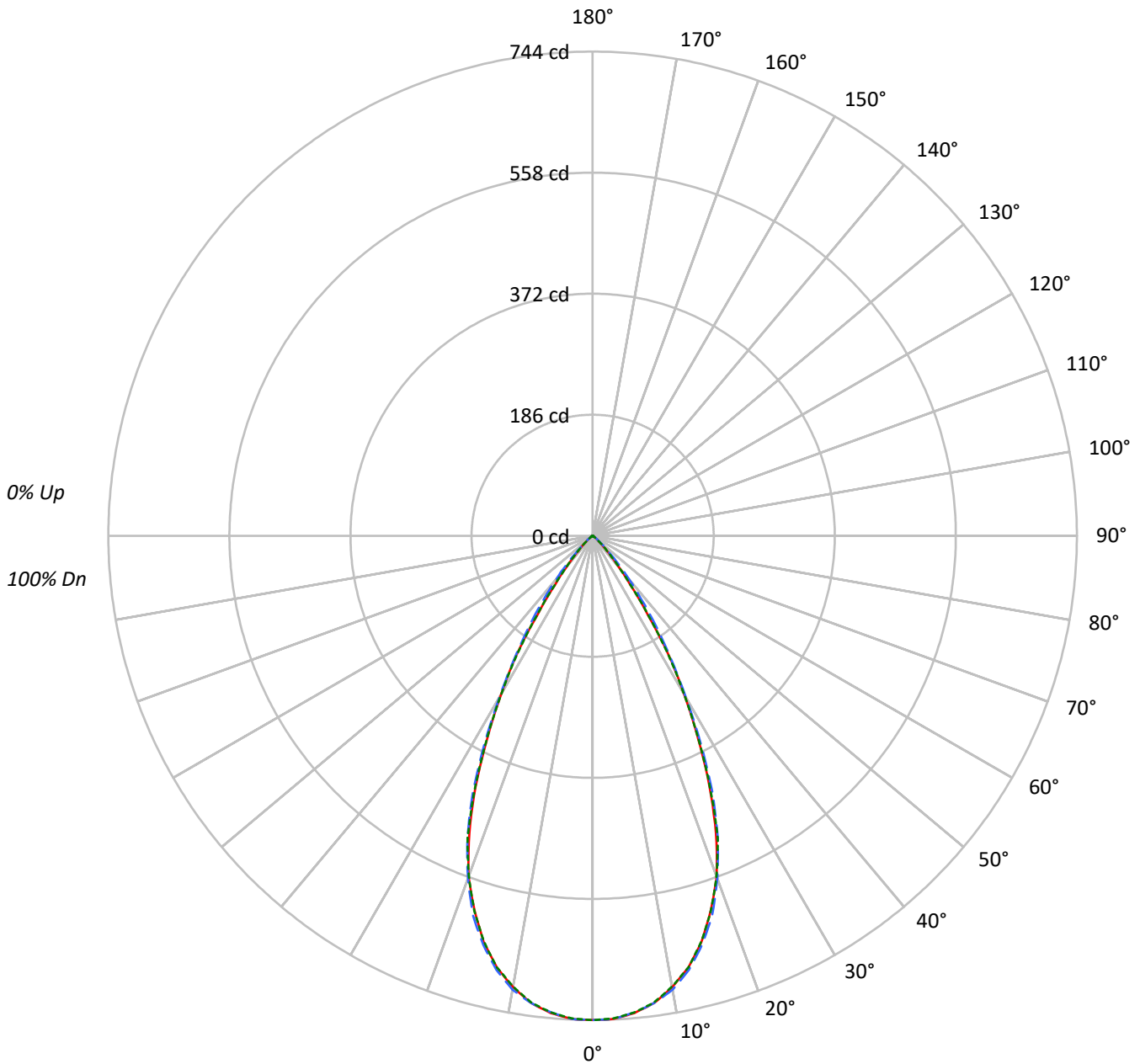
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88	88		
	3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82	82	82	82	82	82		
	4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72	72	72	72	72	72		
	6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68	68	68	68		
	7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64	64	64	64		
	8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60	60	60	60	60	60		
	9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57	57	57	57	57	57		
	10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54	54	54	54	54	54		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	288377	288377	288377
5°	286367	285978	285978
10°	277087	278661	276693
15°	259235	260840	258834
20°	229772	231009	229359
25°	181755	186031	182610
30°	125777	127567	125330
35°	69538	79993	70957
40°	31362	43503	31868
45°	13152	17536	13700
50°	5426	6631	5426
55°	2027	2702	2027
60°	775	775	775
65°	917	917	917
70°	1133	0	1133
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17536 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	12.1
10°-20°	179.8	31.3
20°-30°	193.8	33.8
30°-40°	102.0	17.8
40°-50°	24.3	4.2
50°-60°	3.7	0.6
60°-70°	0.9	0.2
70°-80°	0.1	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°	442.8	77.2
0°-40°	544.8	95.0
0°-60°	572.8	99.8
0°-90°	573.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	573.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	736	736	735	735	735	69
15°	646	646	650	646	645	179
25°	425	429	435	430	427	192
35°	147	161	169	160	150	96
45°	24	26	32	26	25	21
55°	3	3	4	3	3	3
65°	1	1	1	1	1	1
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°	744.2	744.2	744.2	744.2	744.2
2.5°	743.2	743.2	743.2	742.2	742.2
5°	736.2	736.2	735.2	735.2	735.2
7.5°	724.2	725.2	724.2	723.2	723.2
10°	704.2	706.2	708.2	707.2	703.2
12.5°	679.2	679.2	683.2	679.2	679.2
15°	646.2	646.2	650.2	646.2	645.2
17.5°	603.2	606.2	611.2	606.2	604.2
20°	557.2	557.2	560.2	560.2	556.2
22.5°	495.2	499.2	502.2	501.2	502.2
25°	425.1	429.1	435.1	430.1	427.1
27.5°	350.1	354.1	359.1	358.1	352.1
30°	281.1	286.1	285.1	284.1	280.1
32.5°	218.1	222.1	223.1	221.1	215.1
35°	147.0	161.1	169.1	160.1	150.0
37.5°	95.0	107.0	123.0	108.0	96.0
40°	62.0	66.0	86.0	70.0	63.0
42.5°	39.0	43.0	57.0	43.0	40.0
45°	24.0	26.0	32.0	26.0	25.0
47.5°	14.0	15.0	19.0	15.0	15.0
50°	9.0	9.0	11.0	9.0	9.0
52.5°	5.0	6.0	7.0	6.0	6.0
55°	3.0	3.0	4.0	3.0	3.0
57.5°	2.0	2.0	2.0	2.0	2.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	0.0	0.0	0.0	1.0
72.5°	1.0	0.0	0.0	0.0	1.0
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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