

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: P886510

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDSLB-400LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886510
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: ML204LSFLD2W1E-TIR1D55WFL-TL2SDSLB-400LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

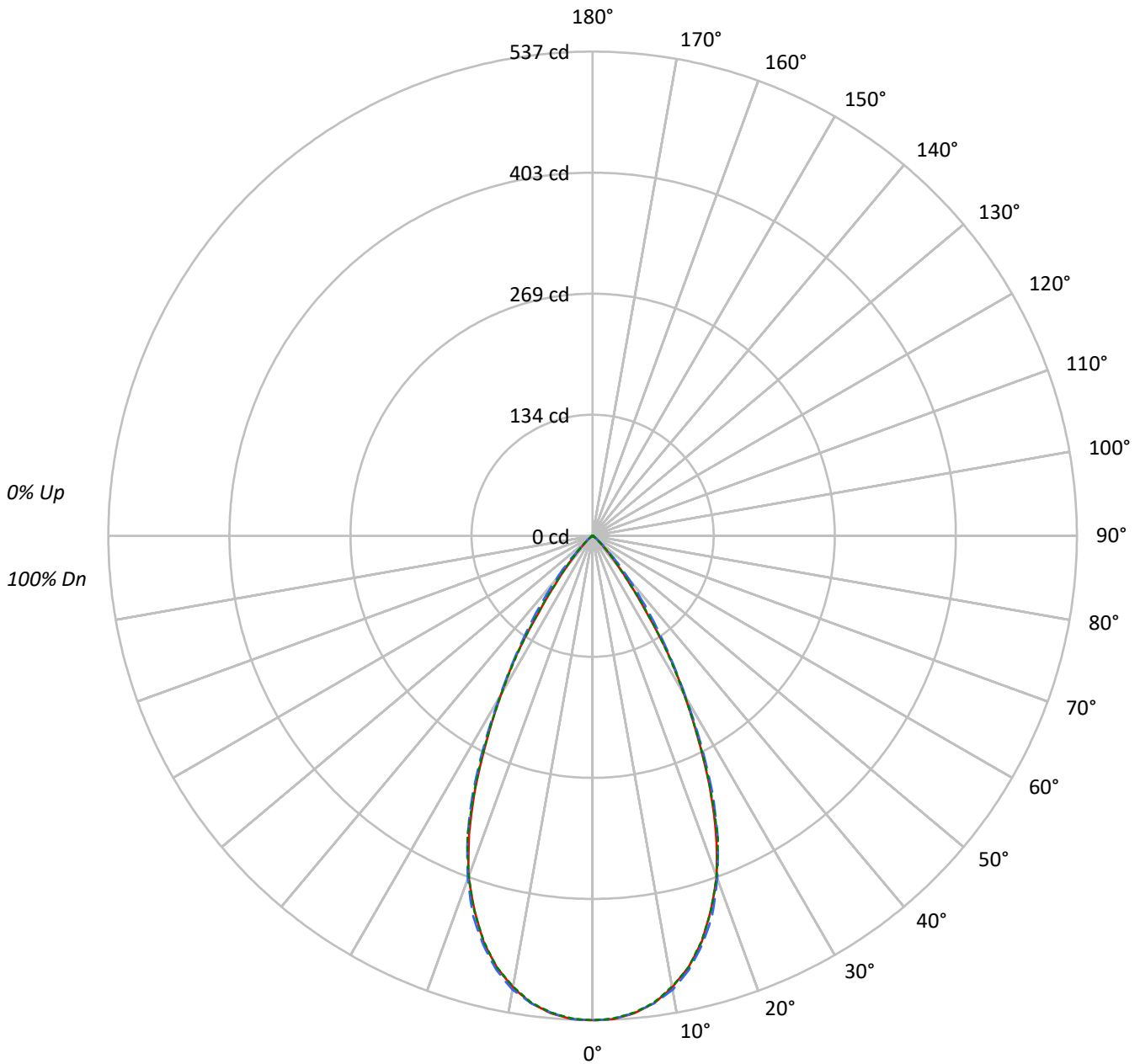
Lumens per Lamp: N/A
Luminaire Lumens: 414.2 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (A_{in}): 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				
RW	70	50	30	10	70	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	101	96	92	88	93	90	87	91	88	85	89	86	84	82		
4	98	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	72		
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68		
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64		
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60		
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57		
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	208203	208203	208203
5°	206743	206470	206470
10°	200044	201185	199768
15°	187145	188309	186864
20°	165855	166762	165566
25°	131218	134296	131816
30°	90787	92084	90474
35°	50238	57712	51231
40°	22662	31413	23016
45°	9481	12659	9919
50°	3918	4762	3918
55°	1486	1959	1486
60°	542	542	542
65°	642	642	642
70°	793	0	793
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12659 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	12.1
10°-20°	129.8	31.3
20°-30°	139.9	33.8
30°-40°	73.6	17.8
40°-50°	17.6	4.2
50°-60°	2.6	0.6
60°-70°	0.6	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°	319.7	77.2
0°-40°	393.3	95.0
0°-60°	413.5	99.8
0°-90°	414.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	414.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	532	532	531	531	531	50
15°	466	466	469	466	466	129
25°	307	310	314	310	308	138
35°	106	116	122	116	108	70
45°	17	19	23	19	18	15
55°	2	2	3	2	2	2
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°	537.3	537.3	537.3	537.3	537.3
2.5°	536.5	536.5	536.5	535.8	535.8
5°	531.5	531.5	530.8	530.8	530.8
7.5°	522.8	523.5	522.8	522.1	522.1
10°	508.4	509.8	511.3	510.5	507.7
12.5°	490.3	490.3	493.2	490.3	490.3
15°	466.5	466.5	469.4	466.5	465.8
17.5°	435.4	437.6	441.2	437.6	436.2
20°	402.2	402.2	404.4	404.4	401.5
22.5°	357.5	360.3	362.5	361.8	362.5
25°	306.9	309.8	314.1	310.5	308.3
27.5°	252.7	255.6	259.2	258.5	254.2
30°	202.9	206.5	205.8	205.1	202.2
32.5°	157.4	160.3	161.0	159.6	155.3
35°	106.2	116.3	122.0	115.5	108.3
37.5°	68.6	77.3	88.8	78.0	69.3
40°	44.8	47.7	62.1	50.5	45.5
42.5°	28.2	31.1	41.2	31.1	28.9
45°	17.3	18.8	23.1	18.8	18.1
47.5°	10.1	10.8	13.7	10.8	10.8
50°	6.5	6.5	7.9	6.5	6.5
52.5°	3.6	4.3	5.1	4.3	4.3
55°	2.2	2.2	2.9	2.2	2.2
57.5°	1.4	1.4	1.4	1.4	1.4
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.0	0.0	0.0	0.7
72.5°	0.7	0.0	0.0	0.0	0.7
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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