

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: PORTFOLIO

Report Number: P778944

Luminaire Tested: LER4D05D010-EC4DR300210IC9050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D05D010-EC4DR300210IC9050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 656.5 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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



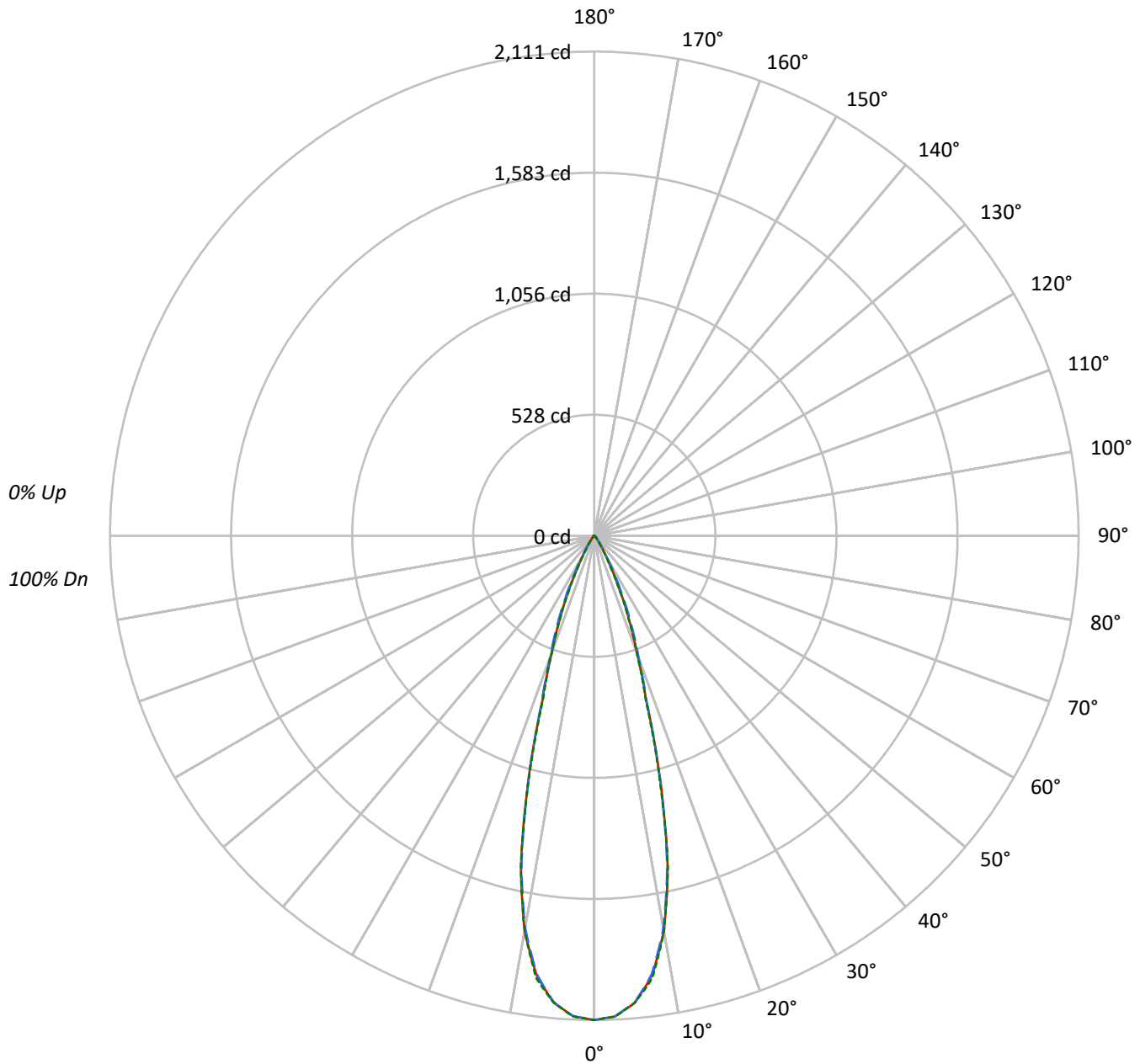
Downlight



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	161583	161583	161583
5°	156945	156760	156952
10°	135940	134984	135909
15°	88697	88214	87770
20°	44100	45754	44043
25°	22212	25050	21764
30°	8892	9696	7751
35°	4130	3953	3317
40°	1779	1978	1679
45°	1256	1559	1267
50°	429	1131	453
55°	254	480	254
60°	168	214	168
65°	109	109	109
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1559 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	28.3
10°-20°	299.0	45.5
20°-30°	129.2	19.7
30°-40°	29.4	4.5
40°-50°	10.1	1.5
50°-60°	2.5	0.4
60°-70°	0.6	0.1
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°	613.8	93.5
0°-40°	643.2	98.0
0°-60°	655.8	99.9
0°-90°	656.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	656.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2111	2111	2111	2111	2111	
5°	2043	2041	2040	2044	2043	186
15°	1119	1106	1113	1110	1108	300
25°	263	273	297	266	258	126
35°	44	45	42	42	36	30
45°	12	14	14	14	12	8
55°	2	2	4	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°	2111.0	2111.0	2111.0	2111.0	2111.0
2.5°	2097.0	2095.6	2096.4	2097.5	2097.9
5°	2042.6	2040.6	2040.2	2044.5	2042.7
7.5°	1932.8	1930.0	1925.8	1935.4	1944.5
10°	1749.0	1745.9	1736.7	1741.2	1748.6
12.5°	1477.5	1467.5	1467.3	1481.8	1479.8
15°	1119.3	1105.8	1113.2	1109.6	1107.6
17.5°	752.7	747.5	757.4	754.4	741.5
20°	541.4	542.8	561.7	552.2	540.7
22.5°	395.1	400.0	422.4	397.9	388.9
25°	263.0	273.0	296.6	266.1	257.7
27.5°	161.8	166.3	190.3	159.7	155.2
30°	100.6	98.4	109.7	94.1	87.7
32.5°	66.0	63.1	66.7	59.9	54.7
35°	44.2	45.1	42.3	42.0	35.5
37.5°	27.6	31.7	28.0	29.9	22.8
40°	17.8	23.0	19.8	21.9	16.8
42.5°	14.6	17.7	16.3	17.3	14.9
45°	11.6	14.4	14.4	14.4	11.7
47.5°	6.4	9.6	12.3	9.9	6.8
50°	3.6	4.9	9.5	5.1	3.8
52.5°	2.5	2.8	6.5	2.9	2.6
55°	1.9	1.9	3.6	2.1	1.9
57.5°	1.4	1.5	1.9	1.5	1.4
60°	1.1	1.1	1.4	1.3	1.1
62.5°	0.8	0.8	0.9	0.8	0.8
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.3	0.4	0.4	0.4	0.4
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)