

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: P752278

Luminaire Tested: LD4D70BD010-EU4DR3070959050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752278
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: LD4D70BD010-EU4DR3070959050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7427.9 lumens
Efficiency: N/A
Efficacy: 111.5 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): 66.6
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

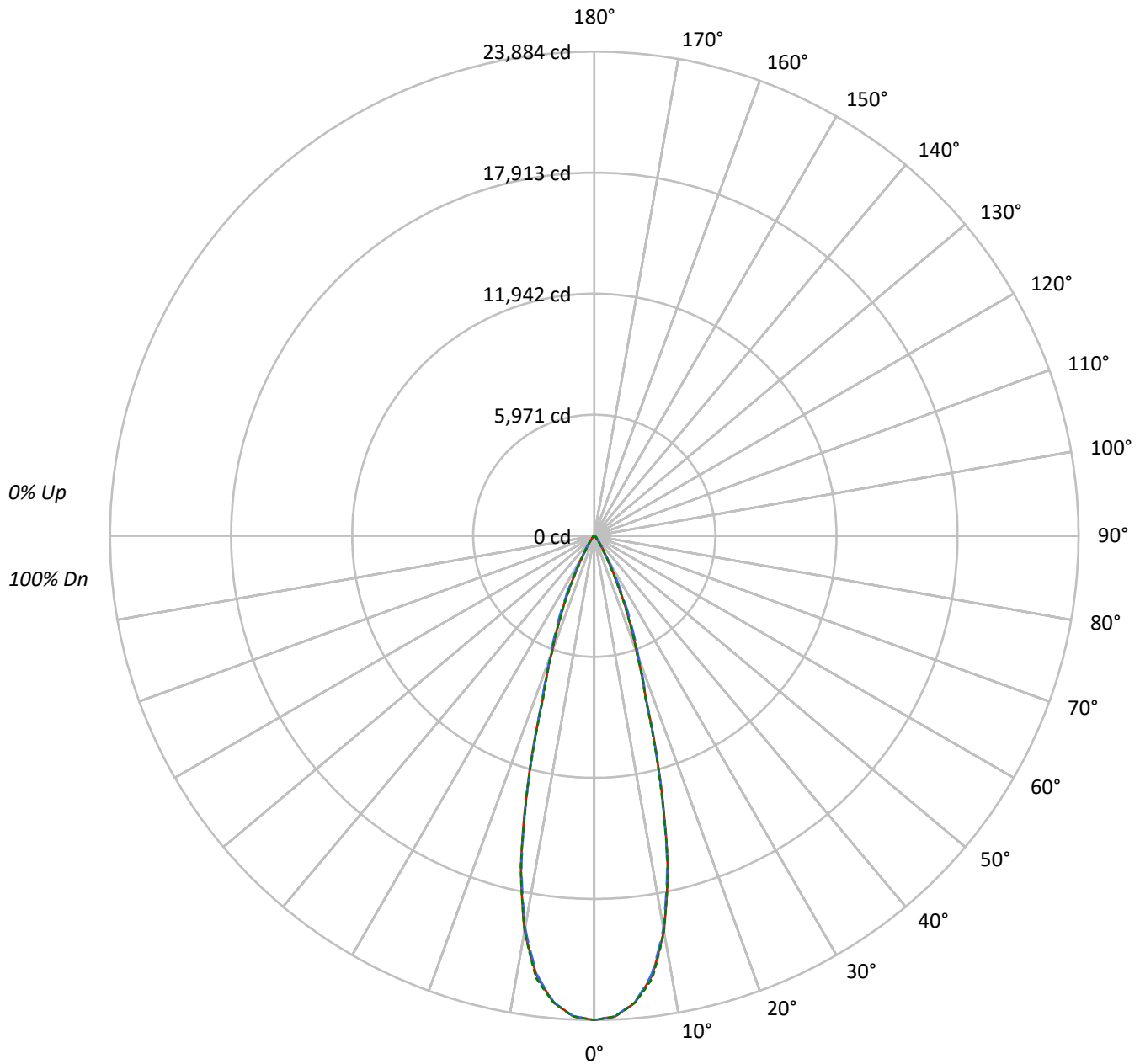


Downlight

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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	86	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°	1828185	1828185	1828185
5°	1775706	1773631	1775798
10°	1538030	1527187	1537665
15°	1003485	998096	993080
20°	498990	517709	498322
25°	251359	283444	246207
30°	100635	109659	87686
35°	46674	44703	37470
40°	20154	22382	18985
45°	14213	17645	14343
50°	4882	12849	5168
55°	2816	5325	2976
60°	1975	2327	1975
65°	1268	1268	1268
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17645 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2100.3	28.3
10°-20°	3382.5	45.5
20°-30°	1461.7	19.7
30°-40°	333.1	4.5
40°-50°	114.4	1.5
50°-60°	27.9	0.4
60°-70°	7.2	0.1
70°-80°	0.8	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°	6944.4	93.5
0°-40°	7277.6	98.0
0°-60°	7419.9	99.9
0°-90°	7427.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7427.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23884	23884	23884	23884	23884	
5°	23110	23088	23083	23132	23112	2102
15°	12663	12511	12595	12554	12532	3391
25°	2976	3089	3356	3010	2915	1425
35°	500	510	478	475	401	339
45°	131	163	163	163	132	93
55°	21	22	40	24	22	21
65°	7	7	7	7	7	7
75°	0	0	1	0	0	1
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°	23884.3	23884.3	23884.3	23884.3	23884.3
2.5°	23726.0	23709.6	23719.0	23730.7	23735.4
5°	23110.4	23088.1	23083.4	23131.5	23111.6
7.5°	21868.6	21836.9	21788.8	21897.9	21999.9
10°	19788.3	19753.1	19648.8	19700.4	19783.6
12.5°	16717.2	16603.4	16601.1	16765.2	16743.0
15°	12663.3	12510.9	12595.3	12554.3	12532.0
17.5°	8515.7	8457.1	8569.7	8535.6	8389.1
20°	6125.9	6141.1	6355.7	6247.8	6117.7
22.5°	4470.1	4525.2	4779.7	4501.8	4399.7
25°	2976.2	3088.7	3356.1	3010.2	2915.2
27.5°	1830.5	1882.1	2153.0	1807.0	1755.4
30°	1138.6	1112.8	1240.7	1064.8	992.1
32.5°	747.0	714.1	755.2	677.8	619.2
35°	499.5	510.1	478.4	474.9	401.0
37.5°	311.9	358.8	316.6	337.7	258.0
40°	201.7	260.3	224.0	247.4	190.0
42.5°	165.3	200.5	184.1	195.8	168.9
45°	131.3	163.0	163.0	163.0	132.5
47.5°	72.7	109.1	139.5	111.4	77.4
50°	41.0	55.1	107.9	57.5	43.4
52.5°	28.1	31.7	73.9	32.8	29.3
55°	21.1	22.3	39.9	23.5	22.3
57.5°	16.4	17.6	21.1	17.6	16.4
60°	12.9	12.9	15.2	14.1	12.9
62.5°	9.4	9.4	10.6	9.4	9.4
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)