

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: P752275

Luminaire Tested: LD4D70BD010-EU4DR3070959050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752275
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-EU4DR3070959050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 7409.3 lumens
Efficiency: N/A
Efficacy: 111.3 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 (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

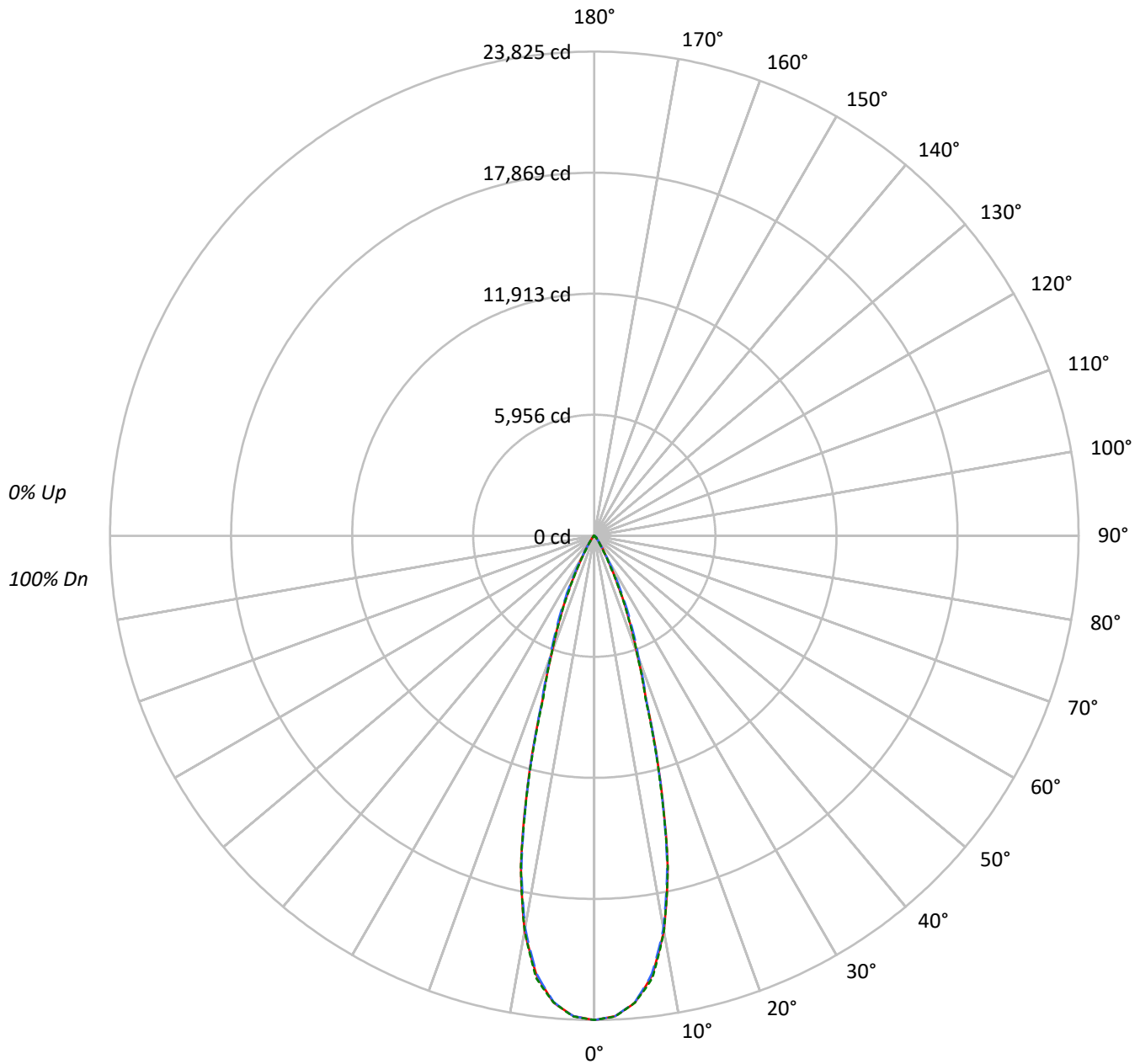


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1823616	1823616	1823616
5°	1771264	1769198	1771357
10°	1534182	1523363	1533825
15°	1000981	995600	990600
20°	497744	516413	497076
25°	250725	282734	245590
30°	100387	109385	87465
35°	46562	44591	37377
40°	20104	22322	18935
45°	14181	17601	14310
50°	4870	12813	5156
55°	2816	5311	2963
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: 17601 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2095.0	28.3
10°-20°	3374.0	45.5
20°-30°	1458.0	19.7
30°-40°	332.3	4.5
40°-50°	114.1	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°	6927.1	93.5
0°-40°	7259.4	98.0
0°-60°	7401.3	99.9
0°-90°	7409.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7409.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23825	23825	23825	23825	23825	
5°	23053	23030	23026	23074	23054	2097
15°	12632	12480	12564	12523	12501	3382
25°	2969	3081	3348	3003	2908	1421
35°	498	509	477	474	400	338
45°	131	163	163	163	132	93
55°	21	22	40	23	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°	23824.6	23824.6	23824.6	23824.6	23824.6
2.5°	23666.7	23650.3	23659.7	23671.4	23676.1
5°	23052.6	23030.4	23025.7	23073.7	23053.8
7.5°	21813.9	21782.3	21734.4	21843.1	21944.9
10°	19738.8	19703.7	19599.6	19651.1	19734.2
12.5°	16675.4	16561.9	16559.6	16723.3	16701.1
15°	12631.7	12479.6	12563.8	12522.9	12500.7
17.5°	8494.4	8435.9	8548.2	8514.3	8368.1
20°	6110.6	6125.8	6339.8	6232.2	6102.4
22.5°	4458.9	4513.9	4767.7	4490.5	4388.7
25°	2968.7	3081.0	3347.7	3002.6	2907.9
27.5°	1825.9	1877.4	2147.6	1802.5	1751.1
30°	1135.8	1110.1	1237.6	1062.1	989.6
32.5°	745.1	712.4	753.3	676.1	617.6
35°	498.3	508.8	477.2	473.7	400.0
37.5°	311.1	357.9	315.8	336.9	257.3
40°	201.2	259.7	223.4	246.8	189.5
42.5°	164.9	200.0	183.6	195.3	168.4
45°	131.0	162.6	162.6	162.6	132.2
47.5°	72.5	108.8	139.2	111.1	77.2
50°	40.9	55.0	107.6	57.3	43.3
52.5°	28.1	31.6	73.7	32.8	29.2
55°	21.1	22.2	39.8	23.4	22.2
57.5°	16.4	17.5	21.1	17.5	16.4
60°	12.9	12.9	15.2	14.0	12.9
62.5°	9.4	9.4	10.5	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)