

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: P752988

Luminaire Tested: LD4D75BD010-EU4DR3070959024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752988
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: LD4D75BD010-EU4DR3070959024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4829.7 lumens
Efficiency: N/A
Efficacy: 66.7 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): 72.4
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

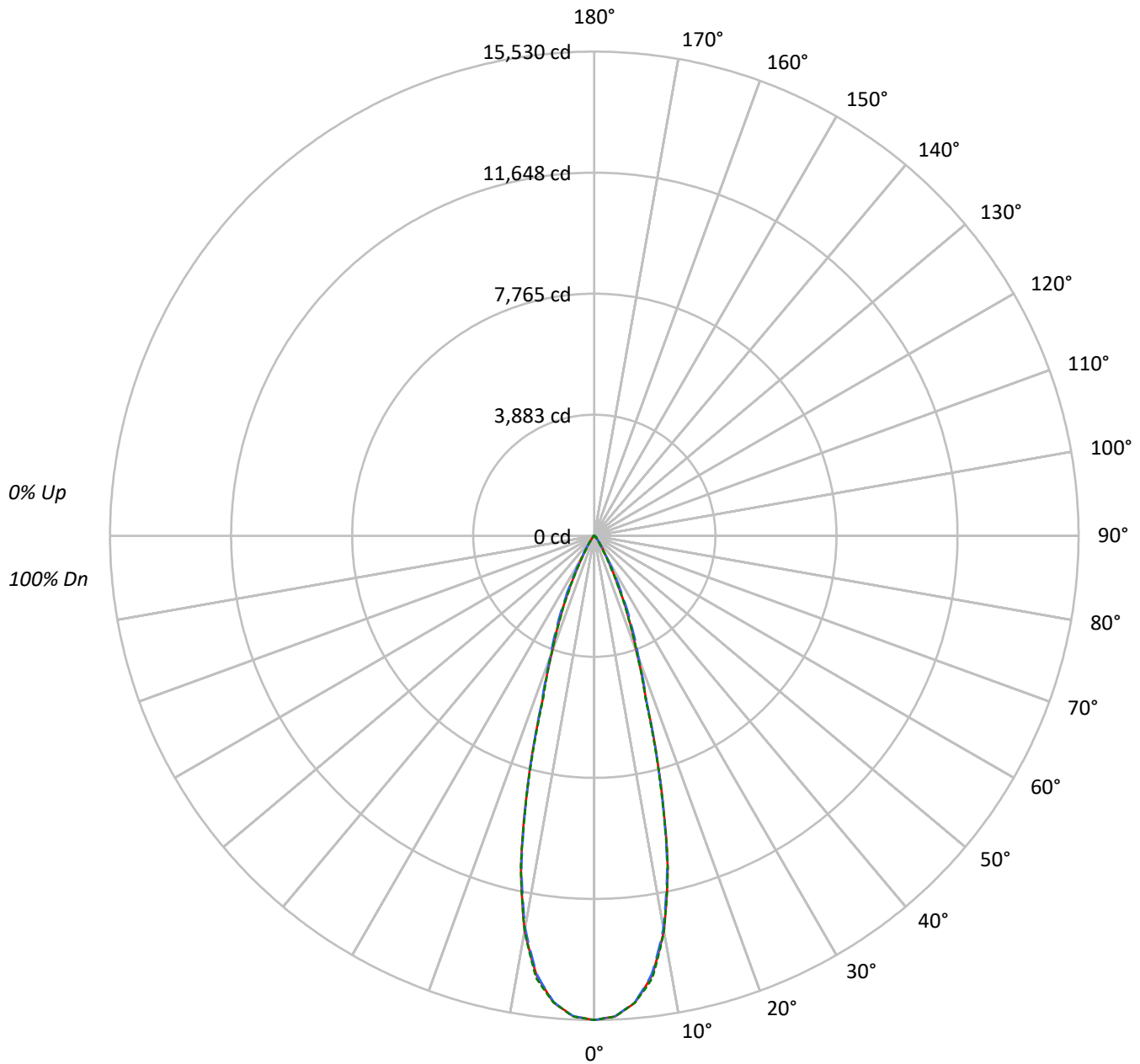


Downlight

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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	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°	1188711	1188711	1188711
5°	1154588	1153236	1154642
10°	1000046	992997	999813
15°	652484	648973	645716
20°	324447	336624	324015
25°	163431	184301	160087
30°	65440	71300	57008
35°	30350	29070	24370
40°	13100	14548	12340
45°	9244	11474	9331
50°	3179	8348	3358
55°	1828	3456	1935
60°	1286	1516	1286
65°	833	833	833
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11474 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1365.6	28.3
10°-20°	2199.3	45.5
20°-30°	950.4	19.7
30°-40°	216.6	4.5
40°-50°	74.4	1.5
50°-60°	18.2	0.4
60°-70°	4.7	0.1
70°-80°	0.5	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°	4515.4	93.5
0°-40°	4732.0	98.0
0°-60°	4824.5	99.9
0°-90°	4829.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4829.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15530	15530	15530	15530	15530	
5°	15027	15012	15009	15040	15027	1367
15°	8234	8135	8190	8163	8148	2205
25°	1935	2008	2182	1957	1896	926
35°	325	332	311	309	261	220
45°	85	106	106	106	86	61
55°	14	14	26	15	14	13
65°	5	5	5	5	5	5
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°	15529.9	15529.9	15529.9	15529.9	15529.9
2.5°	15427.0	15416.3	15422.4	15430.0	15433.1
5°	15026.7	15012.2	15009.1	15040.4	15027.4
7.5°	14219.2	14198.6	14167.4	14238.3	14304.6
10°	12866.6	12843.7	12775.9	12809.4	12863.6
12.5°	10869.7	10795.7	10794.2	10901.0	10886.5
15°	8233.9	8134.7	8189.6	8163.0	8148.5
17.5°	5537.0	5498.9	5572.1	5550.0	5454.7
20°	3983.1	3993.0	4132.6	4062.4	3977.8
22.5°	2906.5	2942.4	3107.8	2927.1	2860.8
25°	1935.1	2008.3	2182.2	1957.2	1895.5
27.5°	1190.2	1223.8	1399.9	1175.0	1141.4
30°	740.4	723.6	806.7	692.3	645.0
32.5°	485.7	464.3	491.0	440.7	402.6
35°	324.8	331.7	311.1	308.8	260.8
37.5°	202.8	233.3	205.9	219.6	167.7
40°	131.1	169.3	145.6	160.9	123.5
42.5°	107.5	130.4	119.7	127.3	109.8
45°	85.4	106.0	106.0	106.0	86.2
47.5°	47.3	70.9	90.7	72.4	50.3
50°	26.7	35.8	70.1	37.4	28.2
52.5°	18.3	20.6	48.0	21.3	19.1
55°	13.7	14.5	25.9	15.2	14.5
57.5°	10.7	11.4	13.7	11.4	10.7
60°	8.4	8.4	9.9	9.1	8.4
62.5°	6.1	6.1	6.9	6.1	6.1
65°	4.6	4.6	4.6	4.6	4.6
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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)