

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: P752989

Luminaire Tested: LD4D75BD010-EU4DR3070959024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752989
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-EU4DR3070959024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5998.9 lumens
Efficiency: N/A
Efficacy: 82.9 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

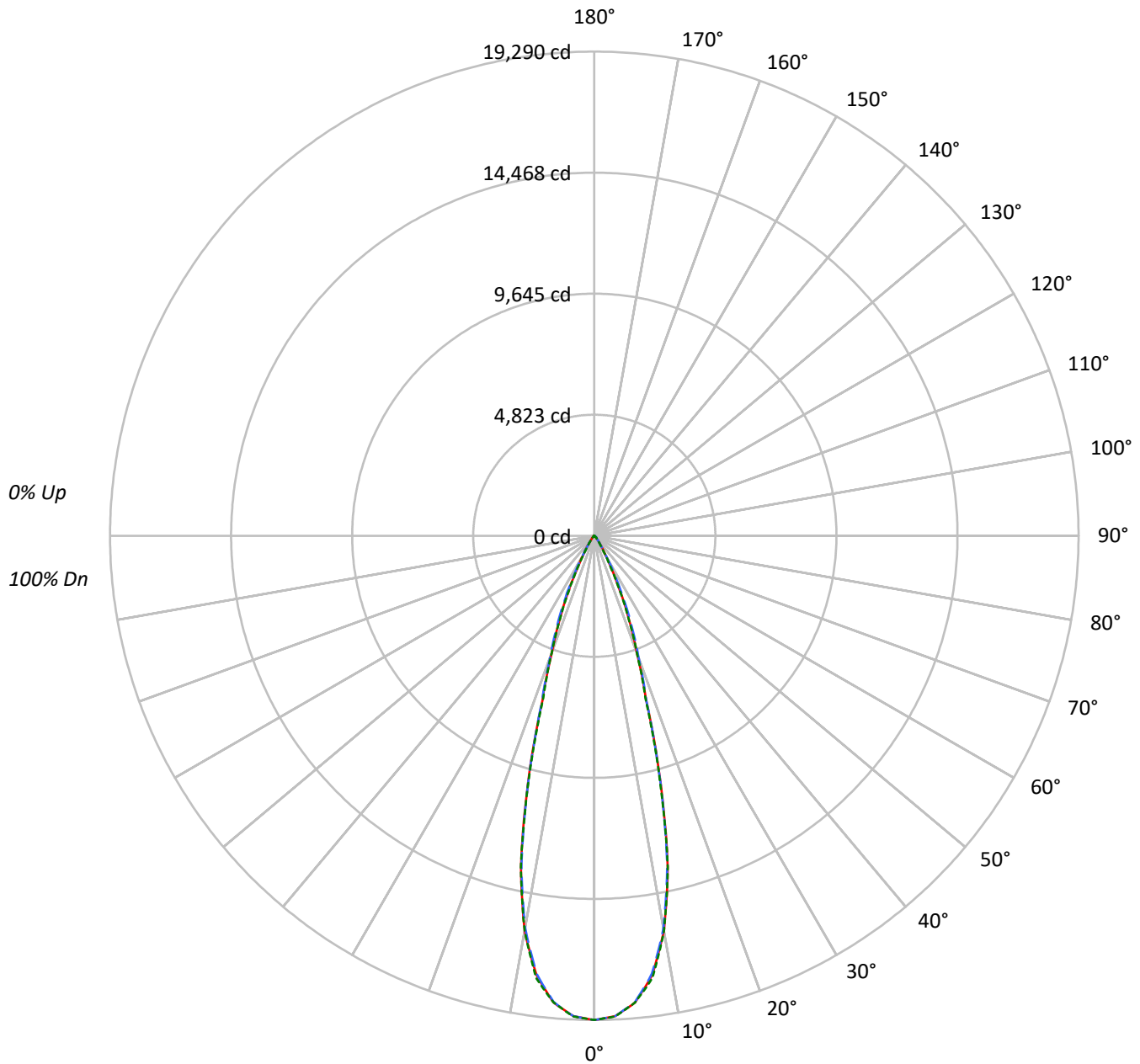


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1476491	1476491	1476491
5°	1434101	1432426	1434178
10°	1242149	1233390	1241854
15°	810440	806089	802040
20°	402994	418113	402457
25°	202999	228919	198844
30°	81279	88561	70814
35°	37695	36106	30266
40°	16277	18076	15328
45°	11485	14246	11583
50°	3942	10372	4168
55°	2269	4297	2402
60°	1592	1883	1592
65°	1032	1032	1032
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14246 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1696.2	28.3
10°-20°	2731.8	45.5
20°-30°	1180.5	19.7
30°-40°	269.1	4.5
40°-50°	92.4	1.5
50°-60°	22.6	0.4
60°-70°	5.9	0.1
70°-80°	0.6	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°	5608.5	93.5
0°-40°	5877.5	98.0
0°-60°	5992.5	99.9
0°-90°	5998.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5998.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19290	19290	19290	19290	19290	
5°	18664	18646	18643	18682	18666	1698
15°	10227	10104	10172	10139	10121	2738
25°	2404	2494	2710	2431	2354	1151
35°	403	412	386	384	324	274
45°	106	132	132	132	107	75
55°	17	18	32	19	18	17
65°	6	6	6	6	6	6
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°	19289.6	19289.6	19289.6	19289.6	19289.6
2.5°	19161.7	19148.5	19156.0	19165.5	19169.3
5°	18664.5	18646.5	18642.7	18681.6	18665.5
7.5°	17661.6	17636.0	17597.2	17685.3	17767.7
10°	15981.5	15953.1	15868.8	15910.5	15977.7
12.5°	13501.2	13409.3	13407.4	13540.0	13522.0
15°	10227.2	10104.1	10172.3	10139.1	10121.2
17.5°	6877.5	6830.1	6921.1	6893.6	6775.2
20°	4947.4	4959.7	5133.0	5045.9	4940.8
22.5°	3610.2	3654.7	3860.2	3635.7	3553.3
25°	2403.6	2494.5	2710.5	2431.1	2354.4
27.5°	1478.3	1520.0	1738.8	1459.4	1417.7
30°	919.6	898.8	1002.0	859.9	801.2
32.5°	603.3	576.8	609.9	547.4	500.0
35°	403.4	412.0	386.4	383.6	323.9
37.5°	251.9	289.8	255.7	272.8	208.4
40°	162.9	210.2	180.9	199.8	153.4
42.5°	133.5	161.9	148.7	158.2	136.4
45°	106.1	131.6	131.6	131.6	107.0
47.5°	58.7	88.1	112.7	90.0	62.5
50°	33.1	44.5	87.1	46.4	35.0
52.5°	22.7	25.6	59.7	26.5	23.7
55°	17.0	18.0	32.2	18.9	18.0
57.5°	13.3	14.2	17.0	14.2	13.3
60°	10.4	10.4	12.3	11.4	10.4
62.5°	7.6	7.6	8.5	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.8	3.8	3.8	3.8	3.8
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)