

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: P753029

Luminaire Tested: LD4D75BD010-EU4DR3070959035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753029
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-EU4DR3070959035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7428.3 lumens
Efficiency: N/A
Efficacy: 102.6 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

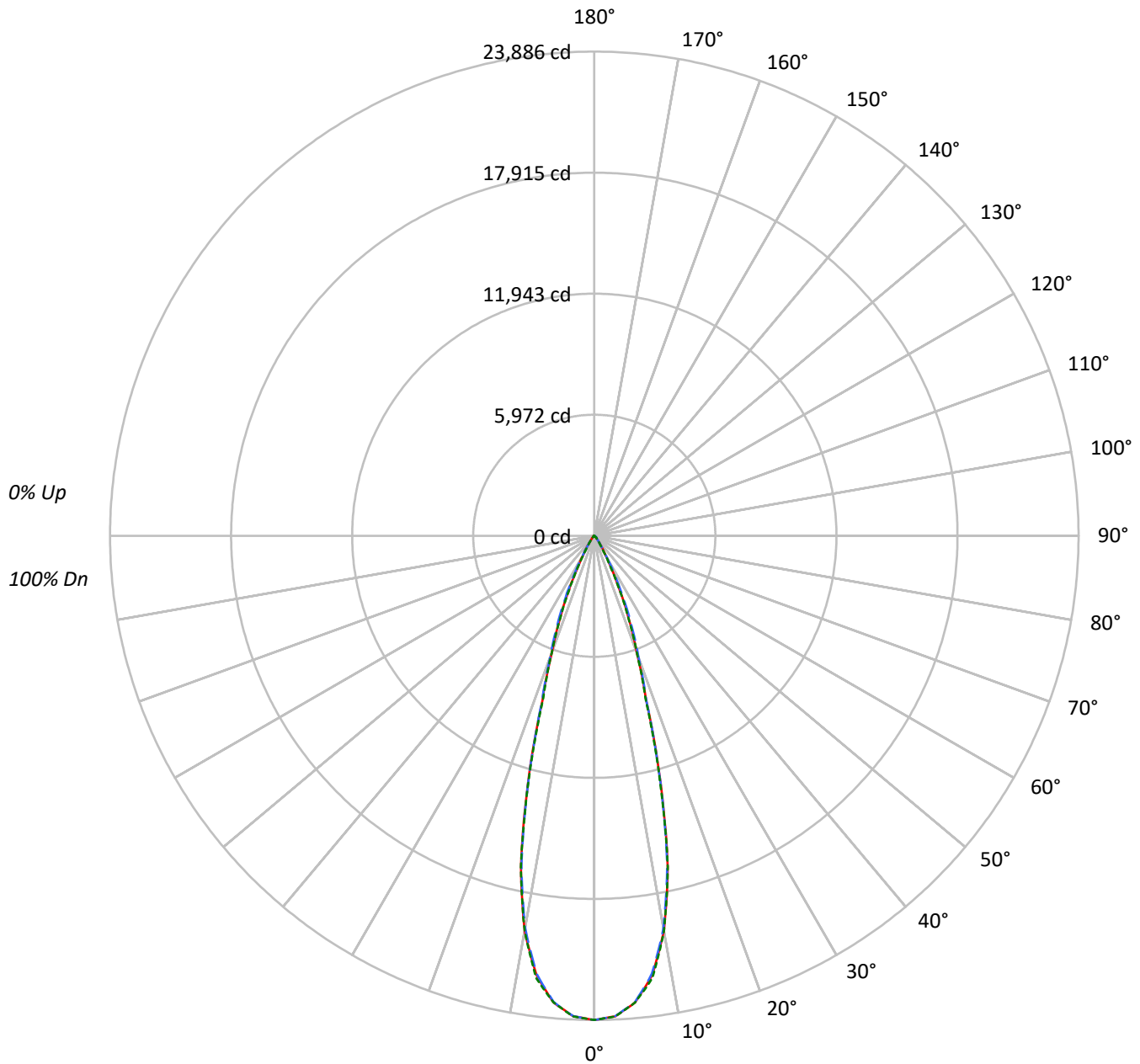


Downlight

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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
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°	1828293	1828293	1828293
5°	1775805	1773731	1775898
10°	1538115	1527273	1537750
15°	1003548	998152	993136
20°	499014	517741	498346
25°	251367	283461	246224
30°	100644	109659	87686
35°	46684	44712	37480
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°	2100.4	28.3
10°-20°	3382.7	45.5
20°-30°	1461.8	19.7
30°-40°	333.2	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°	6944.8	93.5
0°-40°	7278.0	98.0
0°-60°	7420.3	99.9
0°-90°	7428.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7428.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23886	23886	23886	23886	23886	
5°	23112	23089	23085	23133	23113	2102
15°	12664	12512	12596	12555	12533	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°	23885.7	23885.7	23885.7	23885.7	23885.7
2.5°	23727.4	23711.0	23720.3	23732.1	23736.8
5°	23111.7	23089.4	23084.7	23132.8	23112.9
7.5°	21869.8	21838.2	21790.1	21899.1	22001.2
10°	19789.4	19754.3	19649.9	19701.5	19784.7
12.5°	16718.1	16604.4	16602.0	16766.2	16743.9
15°	12664.1	12511.6	12596.0	12555.0	12532.7
17.5°	8516.2	8457.6	8570.1	8536.1	8389.5
20°	6126.2	6141.5	6356.1	6248.2	6118.0
22.5°	4470.4	4525.5	4780.0	4502.0	4400.0
25°	2976.3	3088.9	3356.3	3010.3	2915.4
27.5°	1830.6	1882.2	2153.1	1807.1	1755.5
30°	1138.7	1112.9	1240.7	1064.8	992.1
32.5°	747.0	714.2	755.2	677.8	619.2
35°	499.6	510.1	478.5	474.9	401.1
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°	165.4	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	139.6	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



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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)