

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: P753821

Luminaire Tested: LD4D80BD010-EU4DR3070959040-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753821
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: LD4D80BD010-EU4DR3070959040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7861.3 lumens
Efficiency: N/A
Efficacy: 99.6 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): 78.9
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

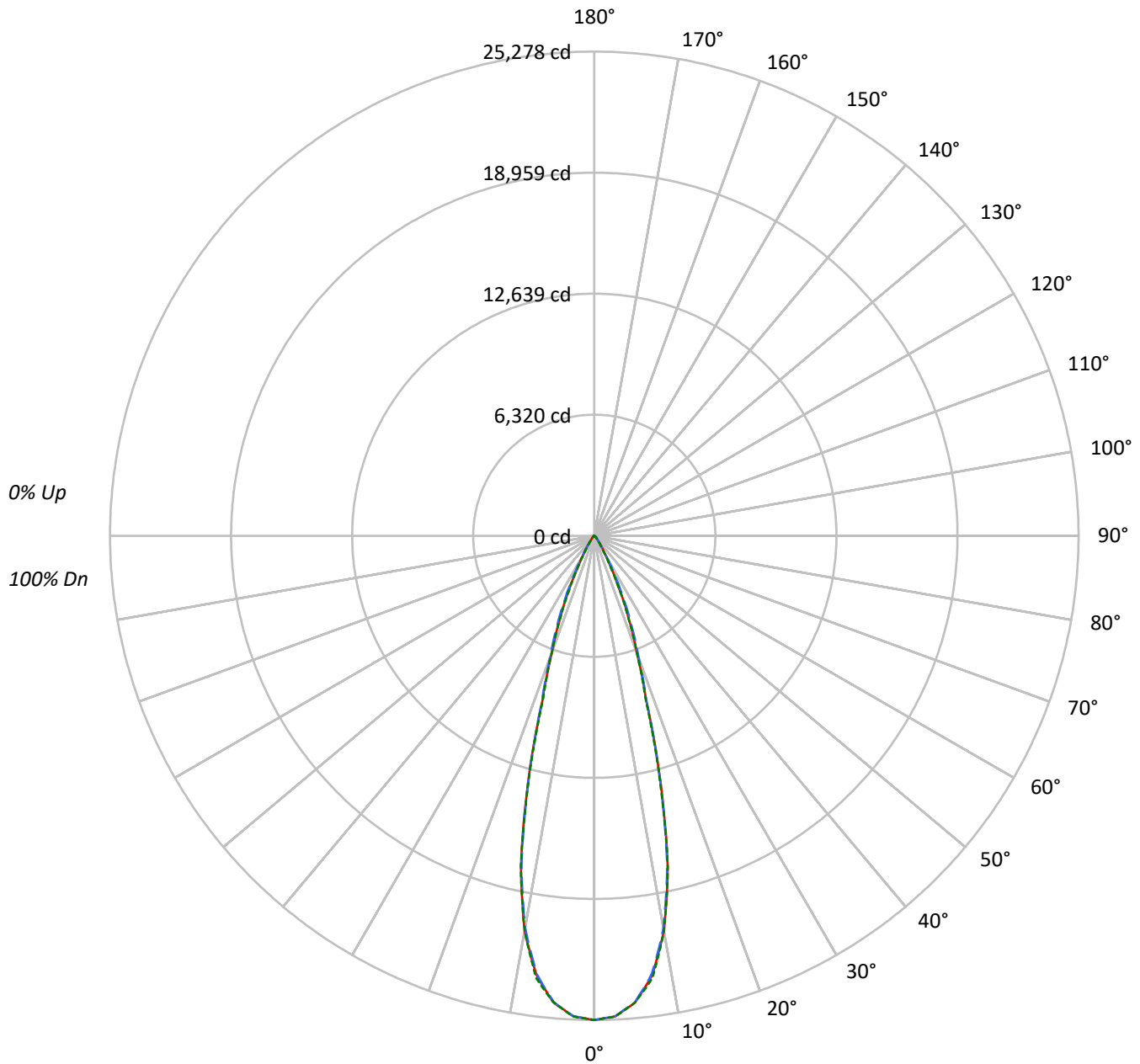


Downlight

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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°	1934849	1934849	1934849
5°	1879311	1877113	1879403
10°	1627762	1616290	1627382
15°	1062038	1056332	1051023
20°	528102	547912	527394
25°	266020	299980	260573
30°	106512	116049	92795
35°	49403	47319	39657
40°	21333	23681	20094
45°	15047	18673	15176
50°	5168	13599	5466
55°	2976	5632	3149
60°	2097	2465	2097
65°	1340	1340	1340
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18673 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2222.8	28.3
10°-20°	3579.8	45.5
20°-30°	1546.9	19.7
30°-40°	352.6	4.5
40°-50°	121.1	1.5
50°-60°	29.6	0.4
60°-70°	7.7	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°	7349.6	93.5
0°-40°	7702.2	98.0
0°-60°	7852.8	99.9
0°-90°	7861.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7861.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25278	25278	25278	25278	25278	
5°	24459	24435	24430	24481	24460	2225
15°	13402	13241	13330	13287	13263	3589
25°	3150	3269	3552	3186	3085	1508
35°	529	540	506	503	424	359
45°	139	172	172	172	140	99
55°	22	24	42	25	24	22
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°	25277.8	25277.8	25277.8	25277.8	25277.8
2.5°	25110.3	25092.9	25102.9	25115.3	25120.2
5°	24458.8	24435.2	24430.2	24481.1	24460.0
7.5°	23144.5	23111.0	23060.1	23175.5	23283.5
10°	20942.8	20905.6	20795.2	20849.8	20937.9
12.5°	17692.5	17572.1	17569.6	17743.4	17719.8
15°	13402.2	13240.8	13330.2	13286.8	13263.2
17.5°	9012.6	8950.5	9069.6	9033.7	8878.5
20°	6483.3	6499.4	6726.5	6612.4	6474.6
22.5°	4730.9	4789.2	5058.5	4764.4	4656.4
25°	3149.8	3268.9	3551.9	3185.8	3085.3
27.5°	1937.3	1991.9	2278.6	1912.5	1857.9
30°	1205.1	1177.8	1313.0	1126.9	1049.9
32.5°	790.6	755.8	799.2	717.3	655.3
35°	528.7	539.9	506.4	502.6	424.4
37.5°	330.1	379.8	335.1	357.4	273.0
40°	213.5	275.5	237.0	261.9	201.1
42.5°	175.0	212.2	194.8	207.3	178.7
45°	139.0	172.5	172.5	172.5	140.2
47.5°	76.9	115.4	147.7	117.9	81.9
50°	43.4	58.3	114.2	60.8	45.9
52.5°	29.8	33.5	78.2	34.7	31.0
55°	22.3	23.6	42.2	24.8	23.6
57.5°	17.4	18.6	22.3	18.6	17.4
60°	13.7	13.7	16.1	14.9	13.7
62.5°	9.9	9.9	11.2	9.9	9.9
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	5.0	5.0	5.0	5.0
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	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)