

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: P753783

Luminaire Tested: LD4D80BD010-EU4DR3070959027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753783
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-EU4DR3070959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7574.6 lumens
Efficiency: N/A
Efficacy: 96.0 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

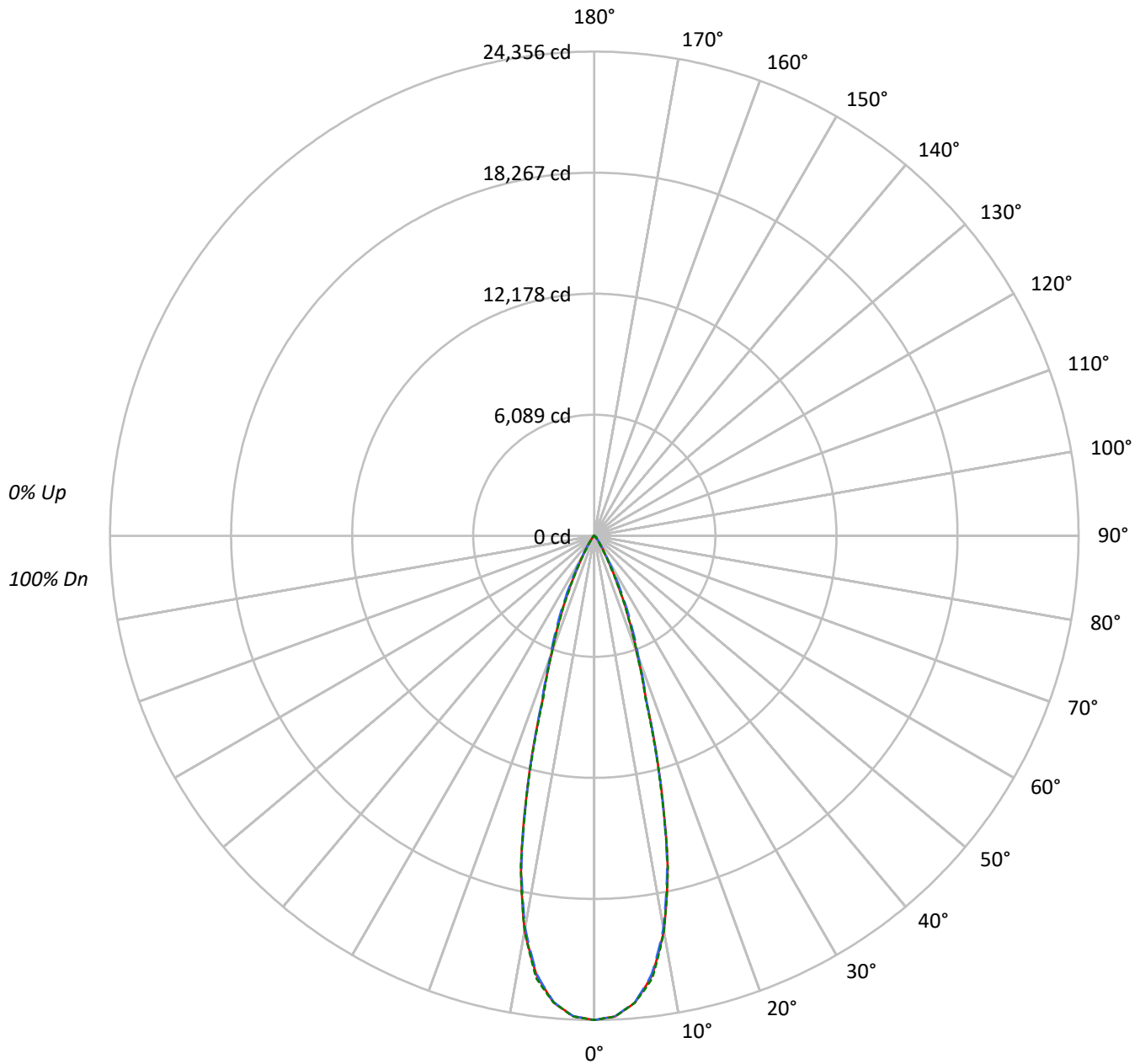


Downlight

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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°	1864291	1864291	1864291
5°	1810766	1808653	1810858
10°	1568397	1557337	1568031
15°	1023304	1017804	1012693
20°	508838	527931	508162
25°	256316	289043	251063
30°	102623	111824	89410
35°	47599	45590	38218
40°	20554	22822	19355
45°	14495	17991	14624
50°	4989	13099	5263
55°	2869	5431	3029
60°	2021	2373	2021
65°	1304	1304	1304
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17991 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2141.7	28.3
10°-20°	3449.3	45.5
20°-30°	1490.5	19.7
30°-40°	339.7	4.5
40°-50°	116.6	1.5
50°-60°	28.5	0.4
60°-70°	7.4	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°	7081.6	93.5
0°-40°	7421.3	98.0
0°-60°	7566.4	99.9
0°-90°	7574.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7574.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24356	24356	24356	24356	24356	
5°	23567	23544	23539	23588	23568	2144
15°	12913	12758	12844	12802	12780	3458
25°	3035	3150	3422	3070	2973	1453
35°	509	520	488	484	409	346
45°	134	166	166	166	135	95
55°	22	23	41	24	23	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°	24356.0	24356.0	24356.0	24356.0	24356.0
2.5°	24194.5	24177.8	24187.3	24199.3	24204.1
5°	23566.7	23544.0	23539.2	23588.3	23567.9
7.5°	22300.4	22268.1	22219.1	22330.3	22434.3
10°	20179.0	20143.2	20036.7	20089.4	20174.3
12.5°	17047.3	16931.3	16928.9	17096.3	17073.6
15°	12913.4	12757.9	12844.0	12802.2	12779.5
17.5°	8683.9	8624.1	8738.9	8704.2	8554.7
20°	6246.8	6262.4	6481.2	6371.2	6238.5
22.5°	4558.4	4614.6	4874.1	4590.7	4486.6
25°	3034.9	3149.7	3422.4	3069.6	2972.7
27.5°	1866.6	1919.3	2195.5	1842.7	1790.1
30°	1161.1	1134.8	1265.2	1085.8	1011.6
32.5°	761.7	728.2	770.1	691.2	631.4
35°	509.4	520.2	487.9	484.3	409.0
37.5°	318.1	365.9	322.9	344.4	263.1
40°	205.7	265.5	228.4	252.3	193.7
42.5°	168.6	204.5	187.7	199.7	172.2
45°	133.9	166.2	166.2	166.2	135.1
47.5°	74.1	111.2	142.3	113.6	78.9
50°	41.9	56.2	110.0	58.6	44.2
52.5°	28.7	32.3	75.3	33.5	29.9
55°	21.5	22.7	40.7	23.9	22.7
57.5°	16.7	17.9	21.5	17.9	16.7
60°	13.2	13.2	15.5	14.3	13.2
62.5°	9.6	9.6	10.8	9.6	9.6
65°	7.2	7.2	7.2	7.2	7.2
67.5°	3.6	4.8	4.8	4.8	4.8
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	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)