

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: P753813

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753813
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-EU4DR3070959035-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 8300.7 lumens
Efficiency: N/A
Efficacy: 105.2 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

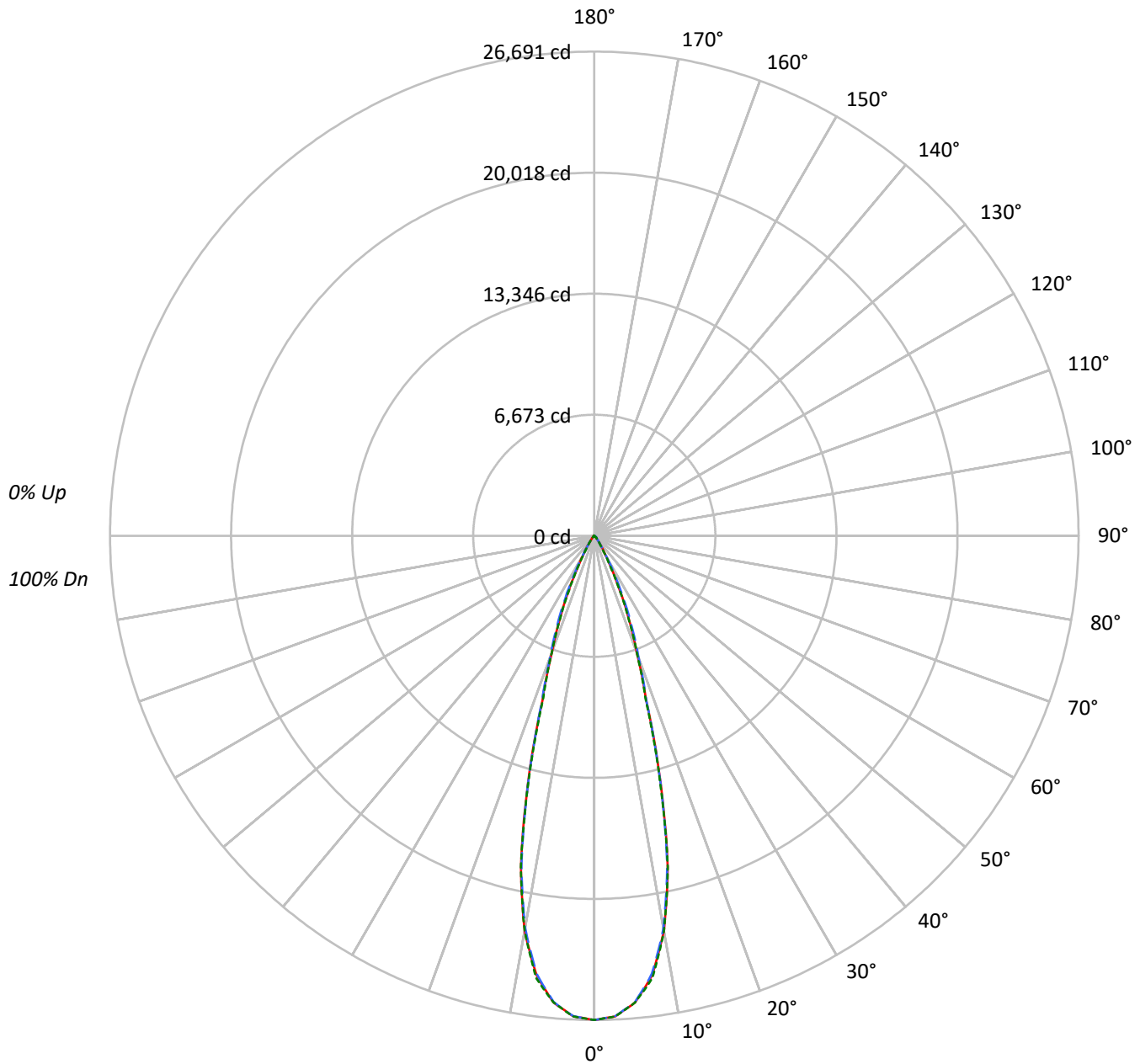


Downlight

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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°	2043004	2043004	2043004
5°	1984353	1982040	1984461
10°	1718754	1706637	1718350
15°	1121399	1115377	1109774
20°	557622	578540	556872
25°	280893	316745	275133
30°	112461	122537	97983
35°	52159	49964	41881
40°	22522	25010	21213
45°	15891	19712	16032
50°	5466	14361	5775
55°	3149	5952	3323
60°	2204	2602	2204
65°	1431	1431	1431
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19712 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2347.1	28.3
10°-20°	3780.0	45.5
20°-30°	1633.4	19.7
30°-40°	372.3	4.5
40°-50°	127.8	1.5
50°-60°	31.2	0.4
60°-70°	8.1	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°	7760.4	93.5
0°-40°	8132.7	98.0
0°-60°	8291.8	99.9
0°-90°	8300.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8300.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26691	26691	26691	26691	26691	
5°	25826	25801	25796	25850	25827	2349
15°	14151	13981	14075	14030	14005	3789
25°	3326	3452	3750	3364	3258	1592
35°	558	570	535	531	448	379
45°	147	182	182	182	148	104
55°	24	25	45	26	25	23
65°	8	8	8	8	8	8
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°	26690.8	26690.8	26690.8	26690.8	26690.8
2.5°	26513.9	26495.6	26506.1	26519.2	26524.4
5°	25825.9	25801.0	25795.8	25849.5	25827.3
7.5°	24438.2	24402.8	24349.1	24471.0	24585.0
10°	22113.5	22074.2	21957.6	22015.2	22108.3
12.5°	18681.5	18554.4	18551.7	18735.2	18710.3
15°	14151.3	13981.0	14075.3	14029.5	14004.6
17.5°	9516.3	9450.8	9576.6	9538.6	9374.8
20°	6845.7	6862.7	7102.5	6982.0	6836.5
22.5°	4995.4	5056.9	5341.3	5030.7	4916.7
25°	3325.9	3451.7	3750.4	3363.9	3257.7
27.5°	2045.6	2103.2	2405.9	2019.4	1961.7
30°	1272.4	1243.6	1386.4	1189.9	1108.6
32.5°	834.7	798.1	843.9	757.4	691.9
35°	558.2	570.0	534.7	530.7	448.2
37.5°	348.6	401.0	353.8	377.4	288.3
40°	225.4	290.9	250.3	276.5	212.3
42.5°	184.8	224.1	205.7	218.8	188.7
45°	146.8	182.1	182.1	182.1	148.1
47.5°	81.2	121.9	155.9	124.5	86.5
50°	45.9	61.6	120.6	64.2	48.5
52.5°	31.5	35.4	82.6	36.7	32.8
55°	23.6	24.9	44.6	26.2	24.9
57.5°	18.3	19.7	23.6	19.7	18.3
60°	14.4	14.4	17.0	15.7	14.4
62.5°	10.5	10.5	11.8	10.5	10.5
65°	7.9	7.9	7.9	7.9	7.9
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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)