

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: P753007

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753007
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-EU4DR3070959027-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 7510.8 lumens
Efficiency: N/A
Efficacy: 103.7 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

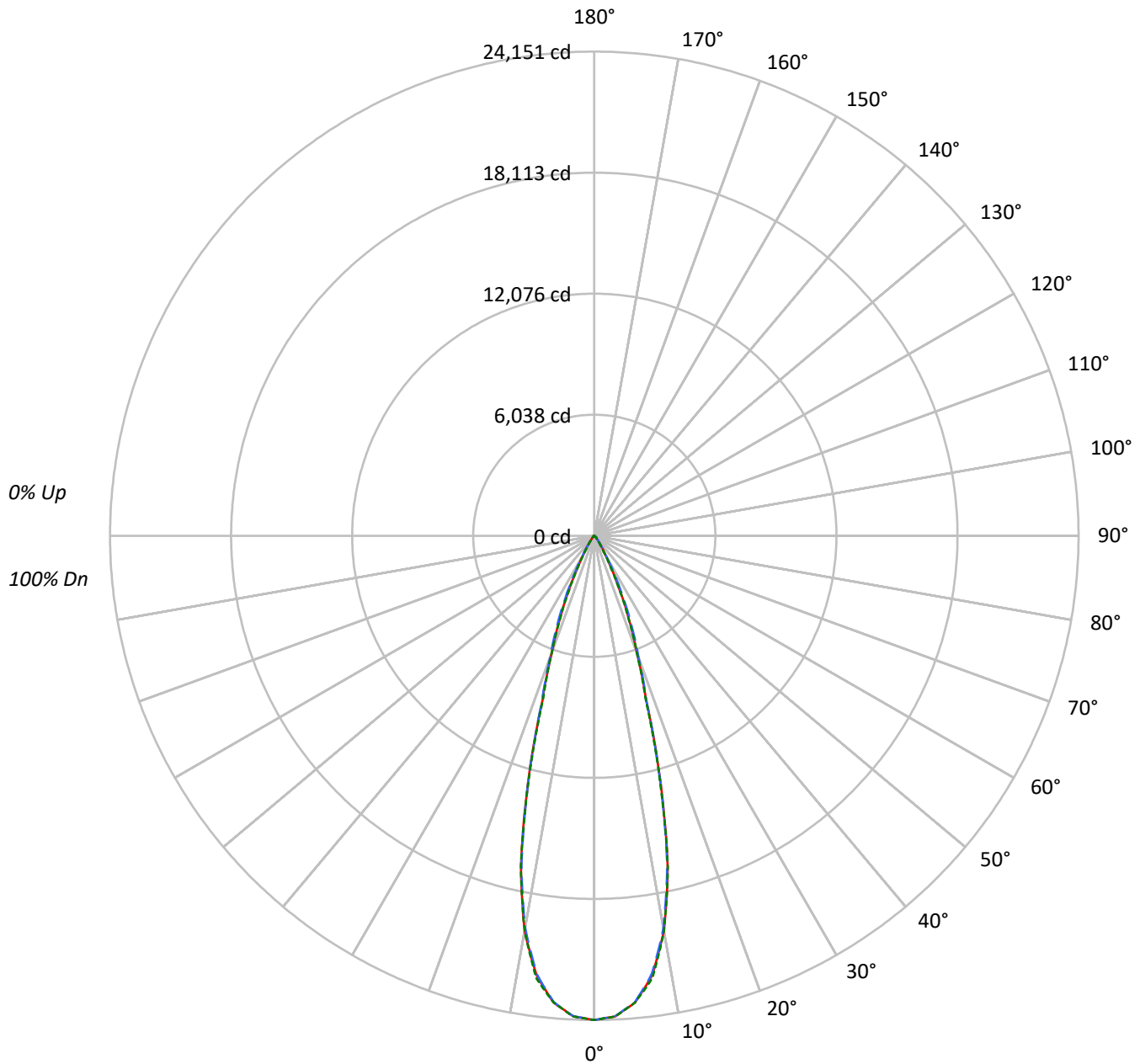


Downlight

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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°	1848592	1848592	1848592
5°	1795522	1793432	1795614
10°	1555199	1544232	1554826
15°	1014690	1009238	1004166
20°	504553	523492	503877
25°	254163	286611	248952
30°	101757	110879	88659
35°	47198	45207	37891
40°	20374	22632	19195
45°	14375	17839	14505
50°	4942	12992	5228
55°	2842	5378	3003
60°	1990	2358	1990
65°	1286	1286	1286
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: 17839 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2123.7	28.3
10°-20°	3420.3	45.5
20°-30°	1478.0	19.7
30°-40°	336.9	4.5
40°-50°	115.7	1.5
50°-60°	28.2	0.4
60°-70°	7.3	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°	7021.9	93.5
0°-40°	7358.8	98.0
0°-60°	7502.7	99.9
0°-90°	7510.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7510.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24151	24151	24151	24151	24151	
5°	23368	23346	23341	23390	23370	2125
15°	12805	12650	12736	12694	12672	3429
25°	3009	3123	3394	3044	2948	1440
35°	505	516	484	480	406	343
45°	133	165	165	165	134	94
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°	24150.9	24150.9	24150.9	24150.9	24150.9
2.5°	23990.9	23974.3	23983.7	23995.6	24000.3
5°	23368.3	23345.8	23341.1	23389.7	23369.5
7.5°	22112.7	22080.6	22032.0	22142.3	22245.5
10°	20009.2	19973.6	19868.1	19920.2	20004.4
12.5°	16903.8	16788.7	16786.4	16952.4	16929.8
15°	12804.7	12650.5	12735.9	12694.4	12671.9
17.5°	8610.8	8551.5	8665.3	8630.9	8482.7
20°	6194.2	6209.7	6426.7	6317.6	6185.9
22.5°	4520.0	4575.7	4833.0	4552.0	4448.9
25°	3009.4	3123.2	3393.6	3043.8	2947.7
27.5°	1850.9	1903.1	2177.0	1827.2	1775.0
30°	1151.3	1125.3	1254.5	1076.6	1003.1
32.5°	755.3	722.1	763.6	685.4	626.1
35°	505.1	515.8	483.8	480.2	405.5
37.5°	315.4	362.8	320.1	341.5	260.9
40°	203.9	263.2	226.5	250.2	192.1
42.5°	167.2	202.8	186.2	198.0	170.7
45°	132.8	164.8	164.8	164.8	134.0
47.5°	73.5	110.3	141.1	112.6	78.3
50°	41.5	55.7	109.1	58.1	43.9
52.5°	28.5	32.0	74.7	33.2	29.6
55°	21.3	22.5	40.3	23.7	22.5
57.5°	16.6	17.8	21.3	17.8	16.6
60°	13.0	13.0	15.4	14.2	13.0
62.5°	9.5	9.5	10.7	9.5	9.5
65°	7.1	7.1	7.1	7.1	7.1
67.5°	3.6	4.7	4.7	4.7	4.7
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)