

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: P752222

Luminaire Tested: LD4D70BD010-EU4DR3070959027-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752222
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: LD4D70BD010-EU4DR3070959027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 6429.5 lumens
Efficiency: N/A
Efficacy: 96.5 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): 66.6
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

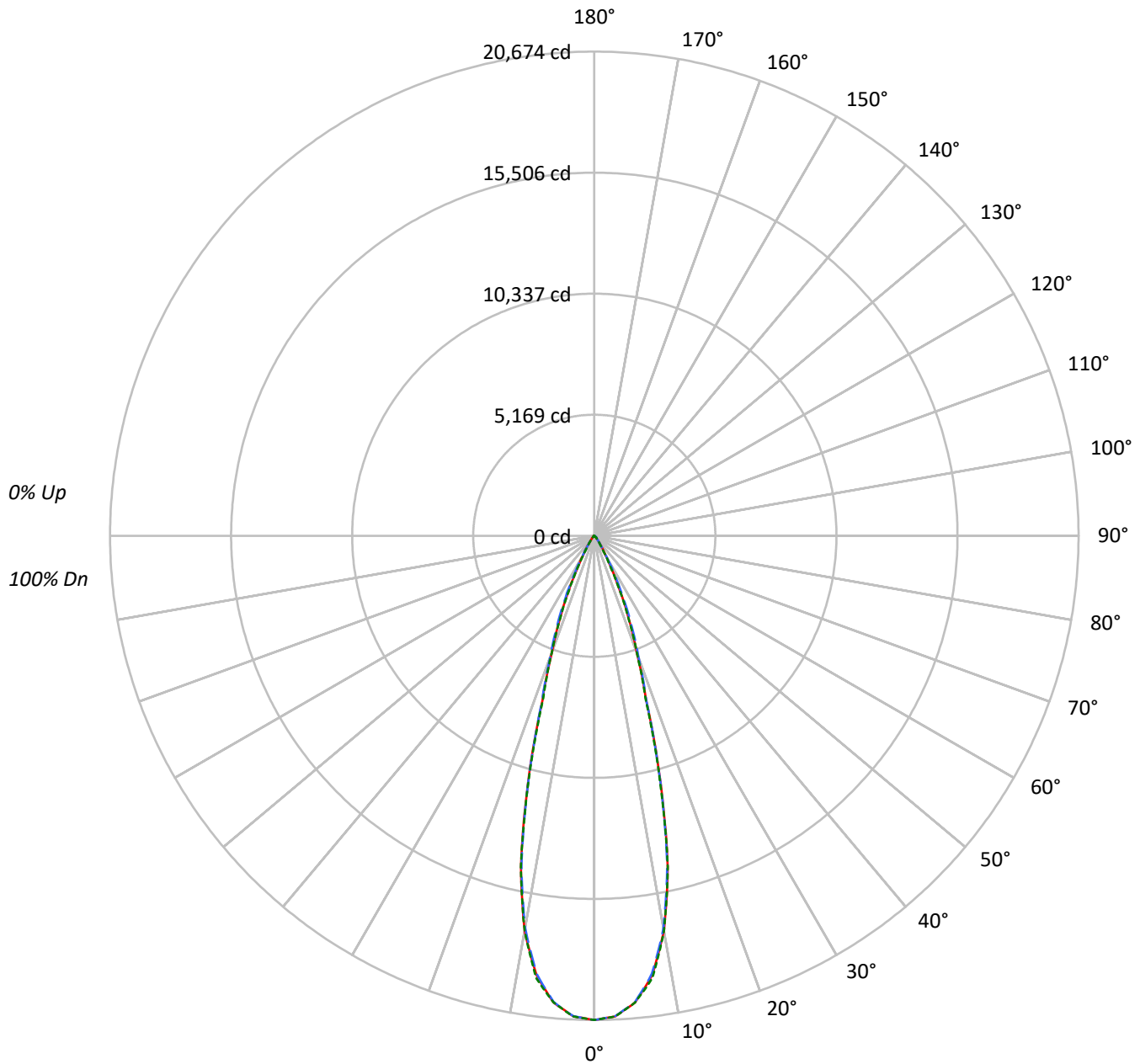


Downlight

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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°	1582451	1582451	1582451
5°	1537015	1535225	1537100
10°	1331291	1321902	1330973
15°	868604	863937	859594
20°	431911	448121	431333
25°	217568	245346	213109
30°	87112	94916	75896
35°	40404	38694	32434
40°	17446	19375	16427
45°	12308	15274	12416
50°	4227	11122	4477
55°	2442	4604	2576
60°	1715	2021	1715
65°	1105	1105	1105
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15274 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1818.0	28.3
10°-20°	2927.8	45.5
20°-30°	1265.2	19.7
30°-40°	288.4	4.5
40°-50°	99.0	1.5
50°-60°	24.2	0.4
60°-70°	6.3	0.1
70°-80°	0.7	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°	6011.0	93.5
0°-40°	6299.3	98.0
0°-60°	6422.5	99.9
0°-90°	6429.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6429.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20674	20674	20674	20674	20674	
5°	20004	19985	19981	20022	20005	1819
15°	10961	10829	10902	10867	10848	2935
25°	2576	2674	2905	2606	2523	1233
35°	432	442	414	411	347	293
45°	114	141	141	141	115	81
55°	18	19	34	20	19	18
65°	6	6	6	6	6	6
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°	20673.9	20673.9	20673.9	20673.9	20673.9
2.5°	20536.8	20522.6	20530.7	20540.9	20544.9
5°	20003.9	19984.7	19980.6	20022.2	20005.0
7.5°	18929.0	18901.6	18860.0	18954.4	19042.7
10°	17128.4	17098.0	17007.6	17052.3	17124.3
12.5°	14470.1	14371.6	14369.6	14511.7	14492.4
15°	10961.2	10829.2	10902.3	10866.8	10847.5
17.5°	7371.0	7320.3	7417.7	7388.3	7261.4
20°	5302.4	5315.6	5501.4	5408.0	5295.3
22.5°	3869.2	3916.9	4137.2	3896.6	3808.3
25°	2576.1	2673.6	2905.0	2605.5	2523.3
27.5°	1584.4	1629.1	1863.6	1564.1	1519.5
30°	985.6	963.3	1073.9	921.6	858.7
32.5°	646.6	618.1	653.7	586.7	535.9
35°	432.4	441.5	414.1	411.1	347.1
37.5°	270.0	310.6	274.1	292.3	223.3
40°	174.6	225.3	193.9	214.2	164.4
42.5°	143.1	173.6	159.4	169.5	146.2
45°	113.7	141.1	141.1	141.1	114.7
47.5°	62.9	94.4	120.8	96.4	67.0
50°	35.5	47.7	93.4	49.7	37.6
52.5°	24.4	27.4	63.9	28.4	25.4
55°	18.3	19.3	34.5	20.3	19.3
57.5°	14.2	15.2	18.3	15.2	14.2
60°	11.2	11.2	13.2	12.2	11.2
62.5°	8.1	8.1	9.1	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.0	4.1	4.1	4.1	4.1
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)