

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: P752265

Luminaire Tested: LD4D70BD010-EU4DR3070959040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752265
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-EU4DR3070959040-4LBS1H
Description: 4 INCH ROUND SHALLOW 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: 7375.3 lumens
Efficiency: N/A
Efficacy: 110.7 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): 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

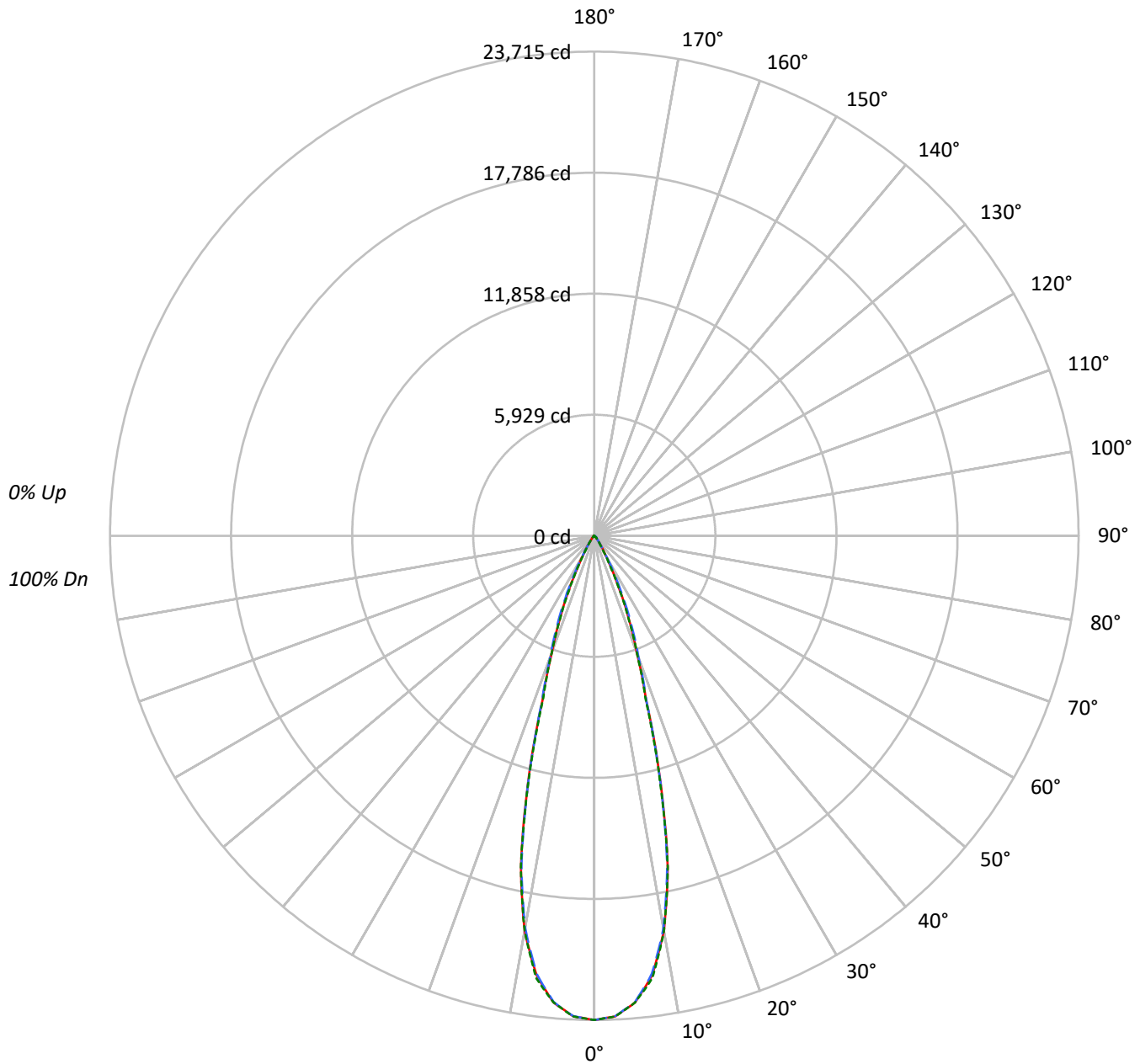


Downlight

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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°	1815219	1815219	1815219
5°	1763112	1761053	1763204
10°	1527125	1516353	1526760
15°	996369	991020	986035
20°	495447	514035	494787
25°	249577	281434	244459
30°	99928	108881	87059
35°	46347	44385	37209
40°	20014	22222	18845
45°	14116	17515	14246
50°	4858	12754	5132
55°	2802	5285	2949
60°	1960	2312	1960
65°	1268	1268	1268
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17515 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2085.4	28.3
10°-20°	3358.5	45.5
20°-30°	1451.3	19.7
30°-40°	330.8	4.5
40°-50°	113.6	1.5
50°-60°	27.7	0.4
60°-70°	7.2	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°	6895.2	93.5
0°-40°	7226.0	98.0
0°-60°	7367.3	99.9
0°-90°	7375.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7375.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23715	23715	23715	23715	23715	
5°	22946	22924	22920	22968	22948	2087
15°	12574	12422	12506	12465	12443	3367
25°	2955	3067	3332	2989	2894	1414
35°	496	506	475	472	398	336
45°	130	162	162	162	132	93
55°	21	22	40	23	22	20
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°	23714.9	23714.9	23714.9	23714.9	23714.9
2.5°	23557.8	23541.5	23550.8	23562.4	23567.1
5°	22946.5	22924.4	22919.7	22967.5	22947.7
7.5°	21713.5	21682.0	21634.3	21742.6	21843.9
10°	19648.0	19613.0	19509.4	19560.6	19643.3
12.5°	16598.6	16485.7	16483.3	16646.3	16624.2
15°	12573.5	12422.2	12506.0	12465.3	12443.1
17.5°	8455.3	8397.1	8508.9	8475.1	8329.6
20°	6082.4	6097.6	6310.6	6203.5	6074.3
22.5°	4438.4	4493.1	4745.8	4469.8	4368.5
25°	2955.1	3066.8	3332.3	2988.8	2894.5
27.5°	1817.5	1868.7	2137.7	1794.2	1743.0
30°	1130.6	1104.9	1231.9	1057.2	985.0
32.5°	741.7	709.1	749.8	673.0	614.8
35°	496.0	506.5	475.0	471.6	398.2
37.5°	309.7	356.3	314.4	335.3	256.2
40°	200.3	258.5	222.4	245.7	188.6
42.5°	164.2	199.1	182.8	194.4	167.7
45°	130.4	161.8	161.8	161.8	131.6
47.5°	72.2	108.3	138.6	110.6	76.8
50°	40.8	54.7	107.1	57.1	43.1
52.5°	27.9	31.4	73.4	32.6	29.1
55°	21.0	22.1	39.6	23.3	22.1
57.5°	16.3	17.5	21.0	17.5	16.3
60°	12.8	12.8	15.1	14.0	12.8
62.5°	9.3	9.3	10.5	9.3	9.3
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	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)