

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: P753015

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753015
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-EU4DR3070959030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7000.8 lumens
Efficiency: N/A
Efficacy: 96.7 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

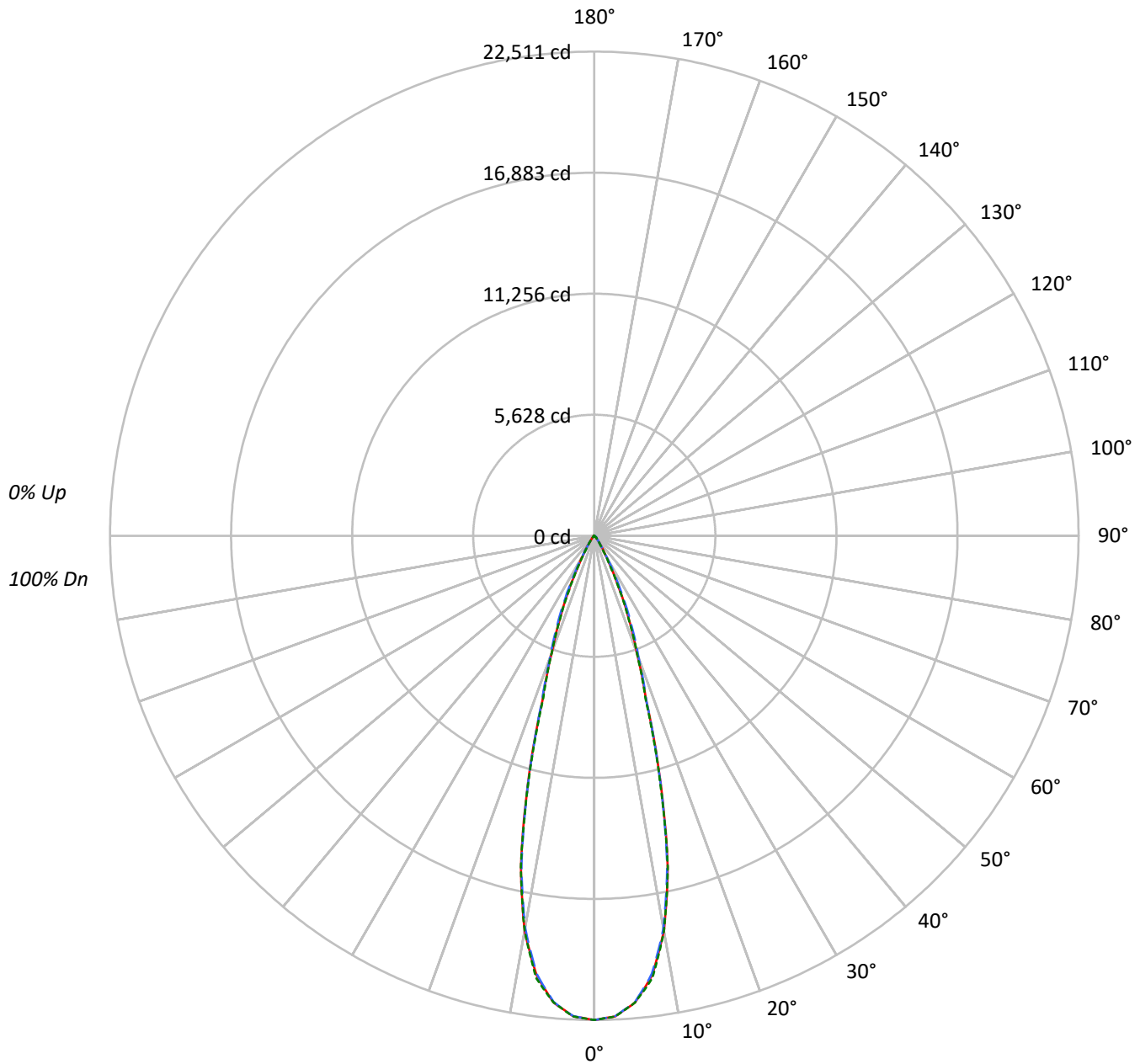


Downlight

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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1723084	1723084	1723084
5°	1673614	1671662	1673698
10°	1449603	1439382	1449261
15°	945796	940716	935985
20°	470301	487945	469666
25°	236908	267144	232052
30°	94854	103348	82640
35°	43993	42133	35321
40°	18995	21093	17886
45°	13401	16627	13520
50°	4608	12110	4870
55°	2656	5018	2802
60°	1868	2204	1868
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16627 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1979.5	28.3
10°-20°	3188.0	45.5
20°-30°	1377.6	19.7
30°-40°	314.0	4.5
40°-50°	107.8	1.5
50°-60°	26.3	0.4
60°-70°	6.8	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°	6545.2	93.5
0°-40°	6859.2	98.0
0°-60°	6993.3	99.9
0°-90°	7000.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7000.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22511	22511	22511	22511	22511	
5°	21782	21761	21756	21802	21783	1981
15°	11935	11792	11871	11832	11812	3196
25°	2805	2911	3163	2837	2748	1343
35°	471	481	451	448	378	319
45°	124	154	154	154	125	88
55°	20	21	38	22	21	19
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°	22511.2	22511.2	22511.2	22511.2	22511.2
2.5°	22362.0	22346.5	22355.3	22366.4	22370.8
5°	21781.7	21760.7	21756.3	21801.6	21782.8
7.5°	20611.3	20581.5	20536.1	20638.9	20735.1
10°	18650.6	18617.5	18519.1	18567.7	18646.2
12.5°	15756.0	15648.8	15646.6	15801.4	15780.4
15°	11935.3	11791.6	11871.2	11832.5	11811.5
17.5°	8026.1	7970.9	8077.0	8044.9	7906.8
20°	5773.7	5788.0	5990.3	5888.6	5765.9
22.5°	4213.1	4265.1	4504.9	4242.9	4146.8
25°	2805.1	2911.2	3163.1	2837.1	2747.6
27.5°	1725.3	1773.9	2029.2	1703.1	1654.5
30°	1073.2	1048.9	1169.3	1003.5	935.0
32.5°	704.0	673.1	711.8	638.8	583.6
35°	470.8	480.8	450.9	447.6	378.0
37.5°	294.0	338.2	298.4	318.3	243.1
40°	190.1	245.4	211.1	233.2	179.0
42.5°	155.8	189.0	173.5	184.6	159.2
45°	123.8	153.6	153.6	153.6	124.9
47.5°	68.5	102.8	131.5	105.0	72.9
50°	38.7	51.9	101.7	54.2	40.9
52.5°	26.5	29.8	69.6	30.9	27.6
55°	19.9	21.0	37.6	22.1	21.0
57.5°	15.5	16.6	19.9	16.6	15.5
60°	12.2	12.2	14.4	13.3	12.2
62.5°	8.8	8.8	9.9	8.8	8.8
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)