

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: P753021

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753021
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-EU4DR3070959030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7004.9 lumens
Efficiency: N/A
Efficacy: 96.8 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

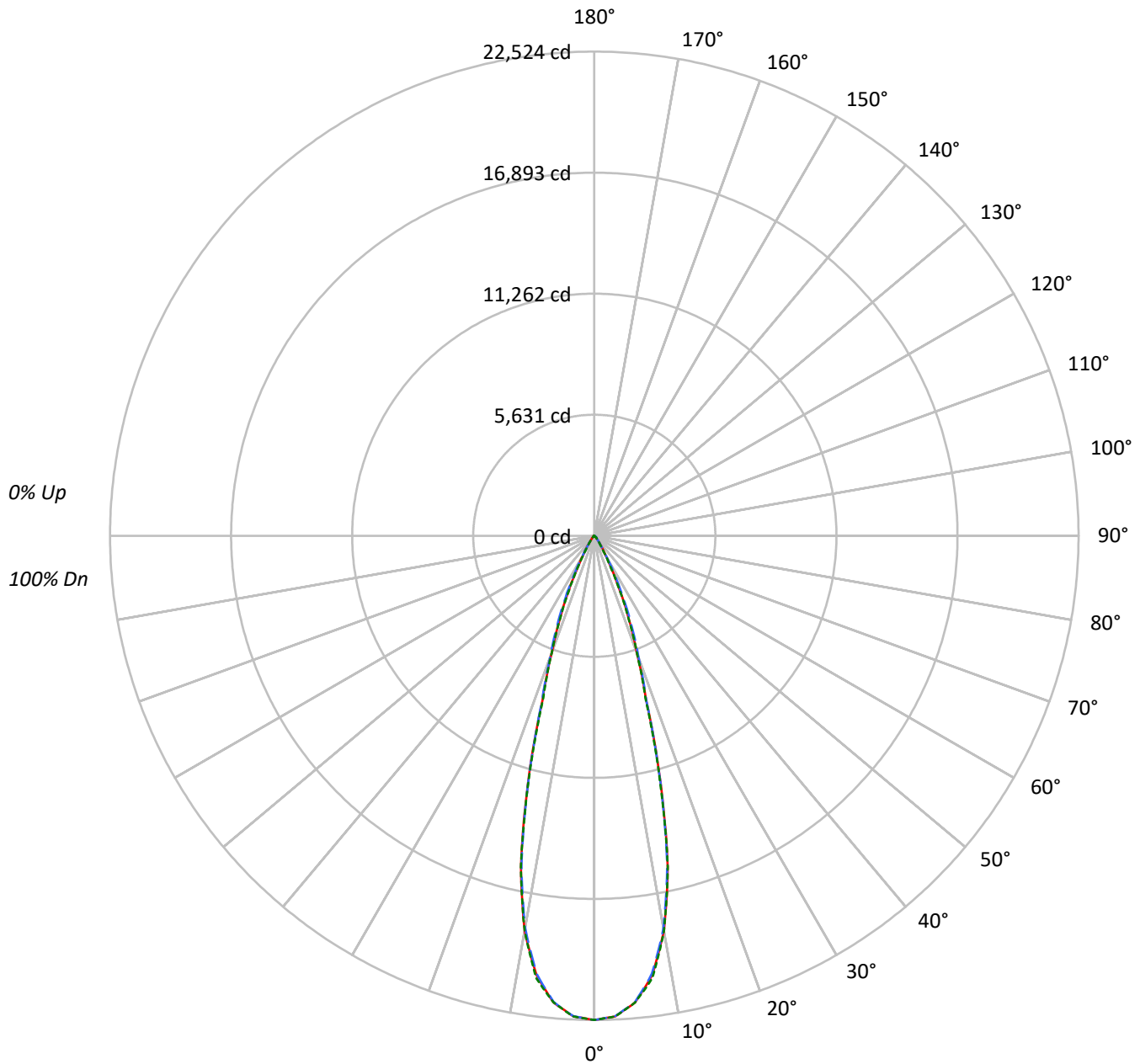


Downlight

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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1724079	1724079	1724079
5°	1674590	1672630	1674674
10°	1450450	1440222	1450100
15°	946342	941263	936532
20°	470570	488230	469943
25°	237043	267304	232187
30°	94907	103410	82693
35°	44021	42161	35340
40°	19005	21103	17896
45°	13412	16638	13531
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: 16638 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1980.7	28.3
10°-20°	3189.9	45.5
20°-30°	1378.4	19.7
30°-40°	314.2	4.5
40°-50°	107.9	1.5
50°-60°	26.4	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°	6549.0	93.5
0°-40°	6863.2	98.0
0°-60°	6997.4	99.9
0°-90°	7004.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7004.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22524	22524	22524	22524	22524	
5°	21794	21773	21769	21814	21796	1982
15°	11942	11798	11878	11839	11818	3198
25°	2807	2913	3165	2839	2749	1343
35°	471	481	451	448	378	320
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°	22524.2	22524.2	22524.2	22524.2	22524.2
2.5°	22374.9	22359.5	22368.3	22379.4	22383.8
5°	21794.4	21773.4	21768.9	21814.3	21795.5
7.5°	20623.3	20593.4	20548.1	20650.9	20747.1
10°	18661.5	18628.3	18529.9	18578.5	18657.0
12.5°	15765.2	15657.9	15655.7	15810.5	15789.5
15°	11942.2	11798.5	11878.1	11839.4	11818.4
17.5°	8030.8	7975.5	8081.7	8049.6	7911.4
20°	5777.0	5791.4	5993.8	5892.0	5769.3
22.5°	4215.6	4267.5	4507.5	4245.4	4149.2
25°	2806.7	2912.8	3165.0	2838.8	2749.2
27.5°	1726.3	1774.9	2030.4	1704.1	1655.5
30°	1073.8	1049.5	1170.0	1004.1	935.6
32.5°	704.4	673.5	712.2	639.2	583.9
35°	471.1	481.1	451.2	447.9	378.2
37.5°	294.2	338.4	298.6	318.5	243.3
40°	190.2	245.5	211.2	233.3	179.1
42.5°	155.9	189.1	173.6	184.7	159.2
45°	123.9	153.7	153.7	153.7	125.0
47.5°	68.6	102.8	131.6	105.1	73.0
50°	38.7	52.0	101.7	54.2	40.9
52.5°	26.5	29.9	69.7	31.0	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	10.0	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)