

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: P752266

Luminaire Tested: LD4D70BD010-EU4DR3070959040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752266
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-EU4DR3070959040-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 7744.0 lumens
Efficiency: N/A
Efficacy: 116.3 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

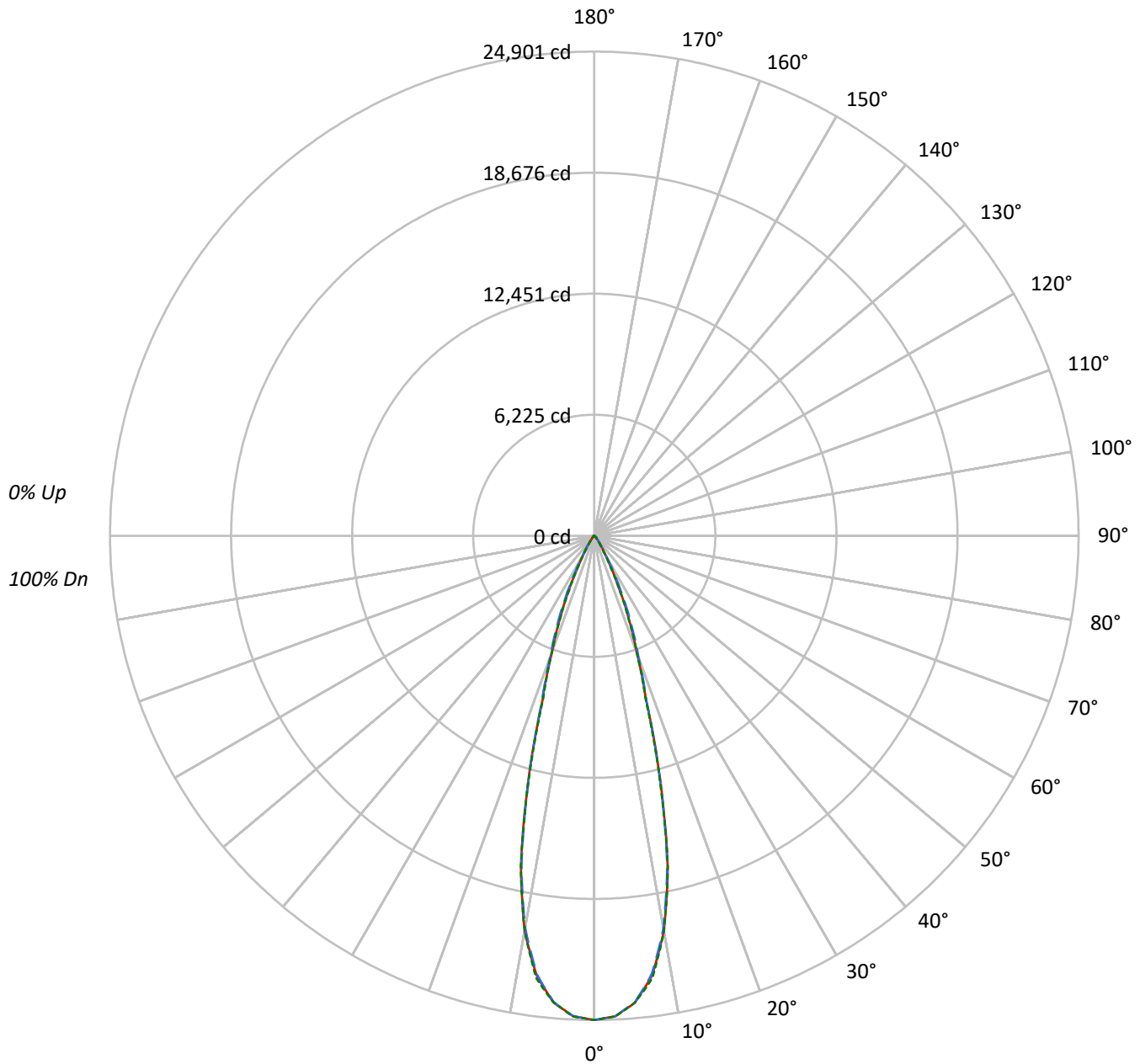


Downlight

TEST NUMBER: P752266

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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	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°	1905984	1905984	1905984
5°	1851266	1849107	1851358
10°	1603481	1592172	1603101
15°	1046189	1040571	1035341
20°	520217	539742	519525
25°	262051	295504	256680
30°	104921	114317	91416
35°	48665	46609	39068
40°	21013	23331	19794
45°	14819	18391	14949
50°	5097	13397	5382
55°	2936	5551	3096
60°	2051	2434	2051
65°	1322	1322	1322
70°	828	537	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18391 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2189.6	28.3
10°-20°	3526.4	45.5
20°-30°	1523.9	19.7
30°-40°	347.3	4.5
40°-50°	119.3	1.5
50°-60°	29.1	0.4
60°-70°	7.5	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°	7239.9	93.5
0°-40°	7587.3	98.0
0°-60°	7735.6	99.9
0°-90°	7744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24901	24901	24901	24901	24901	
5°	24094	24071	24066	24116	24095	2191
15°	13202	13043	13131	13088	13065	3535
25°	3103	3220	3499	3138	3039	1485
35°	521	532	499	495	418	353
45°	137	170	170	170	138	97
55°	22	23	42	24	23	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°	24900.7	24900.7	24900.7	24900.7	24900.7
2.5°	24735.7	24718.5	24728.3	24740.5	24745.4
5°	24093.8	24070.6	24065.7	24115.8	24095.0
7.5°	22799.1	22766.1	22716.0	22829.7	22936.1
10°	20630.4	20593.7	20484.9	20538.7	20625.5
12.5°	17428.5	17309.9	17307.5	17478.7	17455.4
15°	13202.2	13043.3	13131.3	13088.5	13065.3
17.5°	8878.1	8817.0	8934.3	8898.9	8746.1
20°	6386.5	6402.4	6626.2	6513.7	6378.0
22.5°	4660.3	4717.8	4983.1	4693.3	4587.0
25°	3102.8	3220.2	3498.9	3138.3	3039.2
27.5°	1908.4	1962.2	2244.6	1883.9	1830.1
30°	1187.1	1160.2	1293.4	1110.1	1034.3
32.5°	778.8	744.5	787.3	706.6	645.5
35°	520.8	531.8	498.8	495.1	418.1
37.5°	325.2	374.1	330.1	352.1	269.0
40°	210.3	271.4	233.5	258.0	198.1
42.5°	172.4	209.1	191.9	204.2	176.0
45°	136.9	169.9	169.9	169.9	138.1
47.5°	75.8	113.7	145.5	116.1	80.7
50°	42.8	57.5	112.5	59.9	45.2
52.5°	29.3	33.0	77.0	34.2	30.6
55°	22.0	23.2	41.6	24.5	23.2
57.5°	17.1	18.3	22.0	18.3	17.1
60°	13.4	13.4	15.9	14.7	13.4
62.5°	9.8	9.8	11.0	9.8	9.8
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.4	2.4	2.4	3.7
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)