

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: P753020

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753020
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-EU4DR3070959030-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 7737.8 lumens
Efficiency: N/A
Efficacy: 106.9 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 (A_{in}): 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

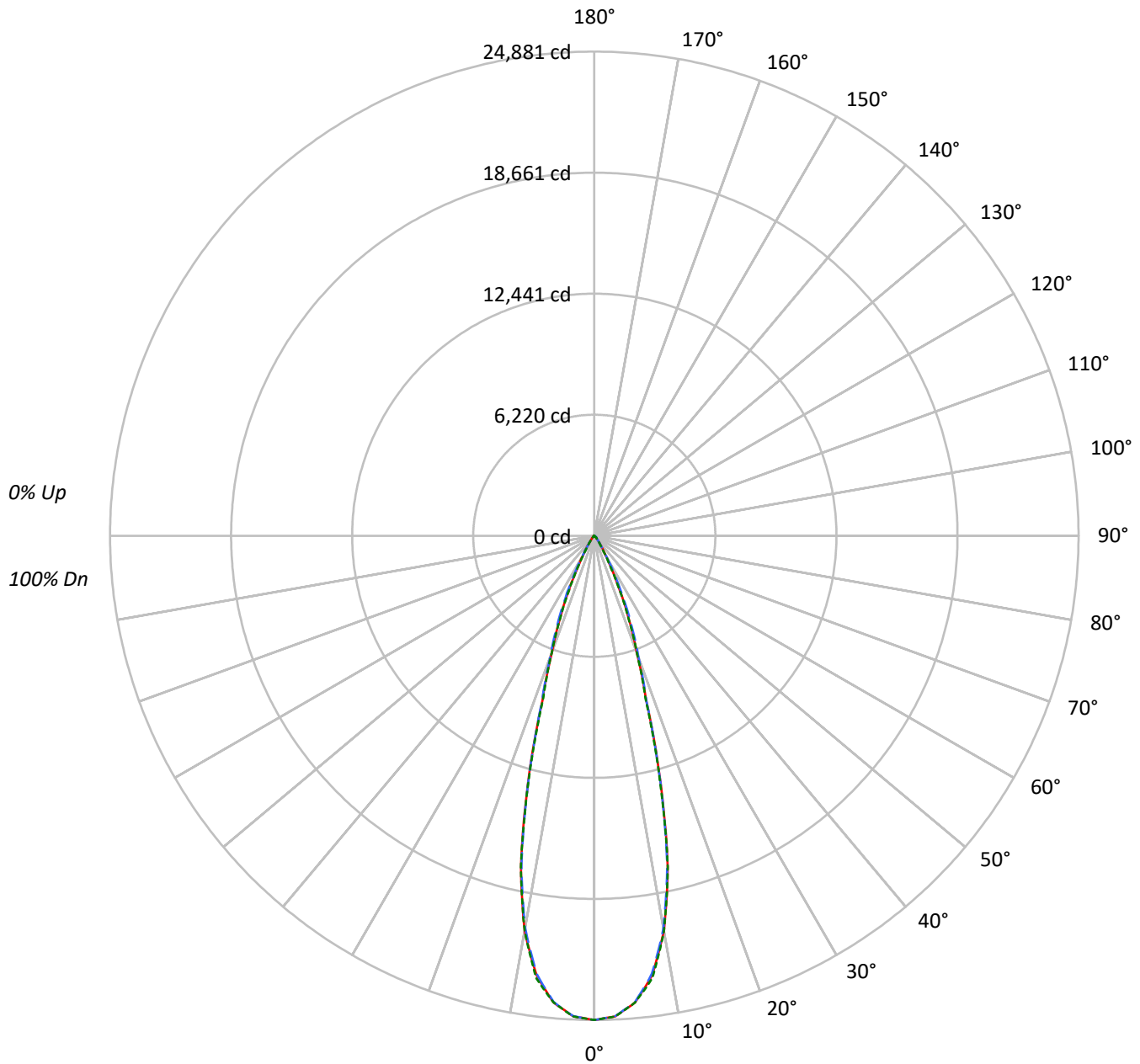


Downlight

TEST NUMBER: P753020

CATALOG NUMBER: LD4D75BD010-EU4DR3070959030-4LBS1LI

Luminous Intensity Polar Plot



TEST NUMBER: P753020

CATALOG NUMBER: LD4D75BD010-EU4DR3070959030-4LBS1LI

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
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°	1904461	1904461	1904461
5°	1849783	1847624	1849883
10°	1602199	1590898	1601818
15°	1045349	1039739	1034509
20°	519802	539311	519110
25°	261840	295268	256477
30°	104833	114228	91337
35°	48627	46572	39040
40°	20993	23311	19774
45°	14808	18381	14938
50°	5097	13385	5382
55°	2936	5538	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: 18381 cd/sqm



TEST NUMBER: P753020

CATALOG NUMBER: LD4D75BD010-EU4DR3070959030-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2187.9	28.3
10°-20°	3523.6	45.5
20°-30°	1522.6	19.7
30°-40°	347.0	4.5
40°-50°	119.2	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°	7234.1	93.5
0°-40°	7581.2	98.0
0°-60°	7729.4	99.9
0°-90°	7737.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7737.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24881	24881	24881	24881	24881	
5°	24074	24051	24046	24096	24076	2190
15°	13192	13033	13121	13078	13055	3532
25°	3100	3218	3496	3136	3037	1484
35°	520	531	498	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	

TEST NUMBER: P753020

CATALOG NUMBER: LD4D75BD010-EU4DR3070959030-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24880.8	24880.8	24880.8	24880.8	24880.8
2.5°	24715.9	24698.8	24708.5	24720.7	24725.6
5°	24074.5	24051.3	24046.4	24096.5	24075.8
7.5°	22780.9	22747.9	22697.8	22811.4	22917.7
10°	20613.9	20577.2	20468.5	20522.2	20609.0
12.5°	17414.6	17296.1	17293.6	17464.7	17441.5
15°	13191.6	13032.8	13120.8	13078.0	13054.8
17.5°	8871.0	8809.9	8927.2	8891.7	8739.1
20°	6381.4	6397.3	6620.9	6508.5	6372.9
22.5°	4656.6	4714.0	4979.1	4689.6	4583.3
25°	3100.3	3217.6	3496.1	3135.7	3036.8
27.5°	1906.9	1960.6	2242.8	1882.4	1828.7
30°	1186.1	1159.3	1292.4	1109.2	1033.4
32.5°	778.1	743.9	786.7	706.1	645.0
35°	520.4	531.4	498.4	494.7	417.8
37.5°	324.9	373.8	329.8	351.8	268.7
40°	210.1	271.2	233.3	257.7	197.9
42.5°	172.2	208.9	191.8	204.0	175.9
45°	136.8	169.8	169.8	169.8	138.0
47.5°	75.7	113.6	145.4	116.0	80.6
50°	42.8	57.4	112.4	59.9	45.2
52.5°	29.3	33.0	77.0	34.2	30.5
55°	22.0	23.2	41.5	24.4	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)