

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: P753040

Luminaire Tested: LD4D75BD010-EU4DR3070959040-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753040
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-EU4DR3070959040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5962.0 lumens
Efficiency: N/A
Efficacy: 82.3 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): 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

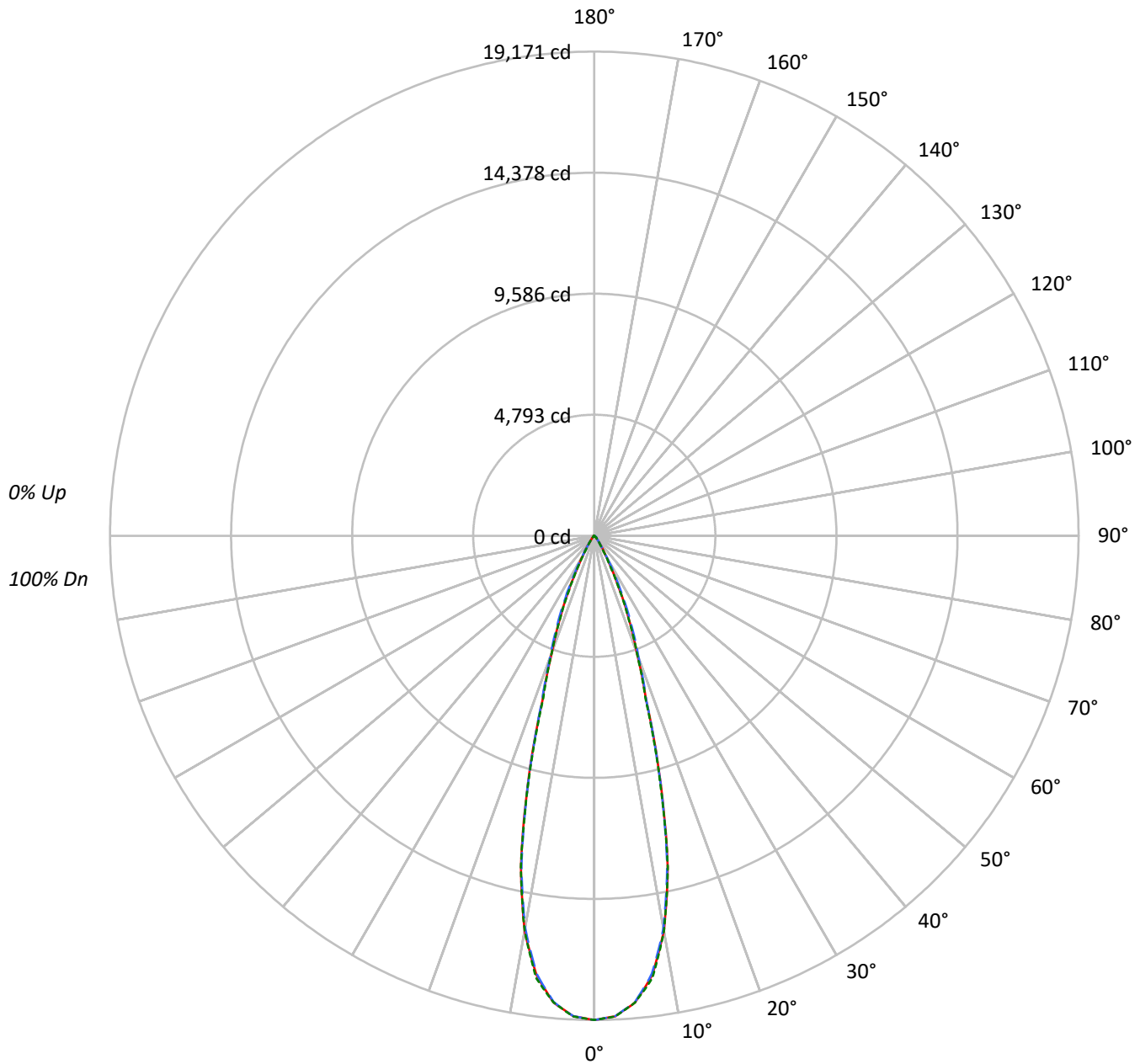


Downlight

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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				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°	1467390	1467390	1467390
5°	1425265	1423606	1425342
10°	1234493	1225788	1234206
15°	805447	801121	797095
20°	400510	415539	399972
25°	201749	227508	197619
30°	80775	88013	70381
35°	37470	35882	30079
40°	16177	17966	15238
45°	11409	14159	11518
50°	3918	10312	4144
55°	2255	4270	2389
60°	1592	1868	1592
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14159 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1685.8	28.3
10°-20°	2715.0	45.5
20°-30°	1173.2	19.7
30°-40°	267.4	4.5
40°-50°	91.8	1.5
50°-60°	22.4	0.4
60°-70°	5.8	0.1
70°-80°	0.6	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°	5573.9	93.5
0°-40°	5841.3	98.0
0°-60°	5955.6	99.9
0°-90°	5962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19171	19171	19171	19171	19171	
5°	18550	18532	18528	18566	18550	1687
15°	10164	10042	10110	10077	10059	2722
25°	2389	2479	2694	2416	2340	1143
35°	401	409	384	381	322	272
45°	105	131	131	131	106	75
55°	17	18	32	19	18	16
65°	6	6	6	6	6	6
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°	19170.7	19170.7	19170.7	19170.7	19170.7
2.5°	19043.7	19030.5	19038.0	19047.4	19051.2
5°	18549.5	18531.6	18527.9	18566.5	18550.5
7.5°	17552.8	17527.4	17488.8	17576.3	17658.2
10°	15883.0	15854.8	15771.0	15812.5	15879.3
12.5°	13418.0	13326.7	13324.8	13456.6	13438.7
15°	10164.2	10041.9	10109.6	10076.7	10058.8
17.5°	6835.1	6788.1	6878.4	6851.1	6733.5
20°	4916.9	4929.2	5101.4	5014.8	4910.3
22.5°	3587.9	3632.2	3836.4	3613.3	3531.4
25°	2388.8	2479.2	2693.8	2416.1	2339.9
27.5°	1469.2	1510.7	1728.1	1450.4	1409.0
30°	913.9	893.2	995.8	854.6	796.3
32.5°	599.6	573.2	606.1	544.0	497.0
35°	401.0	409.4	384.0	381.2	321.9
37.5°	250.4	288.0	254.1	271.1	207.1
40°	161.9	209.0	179.8	198.6	152.5
42.5°	132.7	160.9	147.8	157.2	135.5
45°	105.4	130.8	130.8	130.8	106.4
47.5°	58.4	87.5	112.0	89.4	62.1
50°	32.9	44.2	86.6	46.1	34.8
52.5°	22.6	25.4	59.3	26.4	23.5
55°	16.9	17.9	32.0	18.8	17.9
57.5°	13.2	14.1	16.9	14.1	13.2
60°	10.4	10.4	12.2	11.3	10.4
62.5°	7.5	7.5	8.5	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.8	3.8	3.8	3.8
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)