

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: P752210

Luminaire Tested: LD4D70BD010-EU4DR3070959024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752210
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-EU4DR3070959024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5959.6 lumens
Efficiency: N/A
Efficacy: 89.5 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

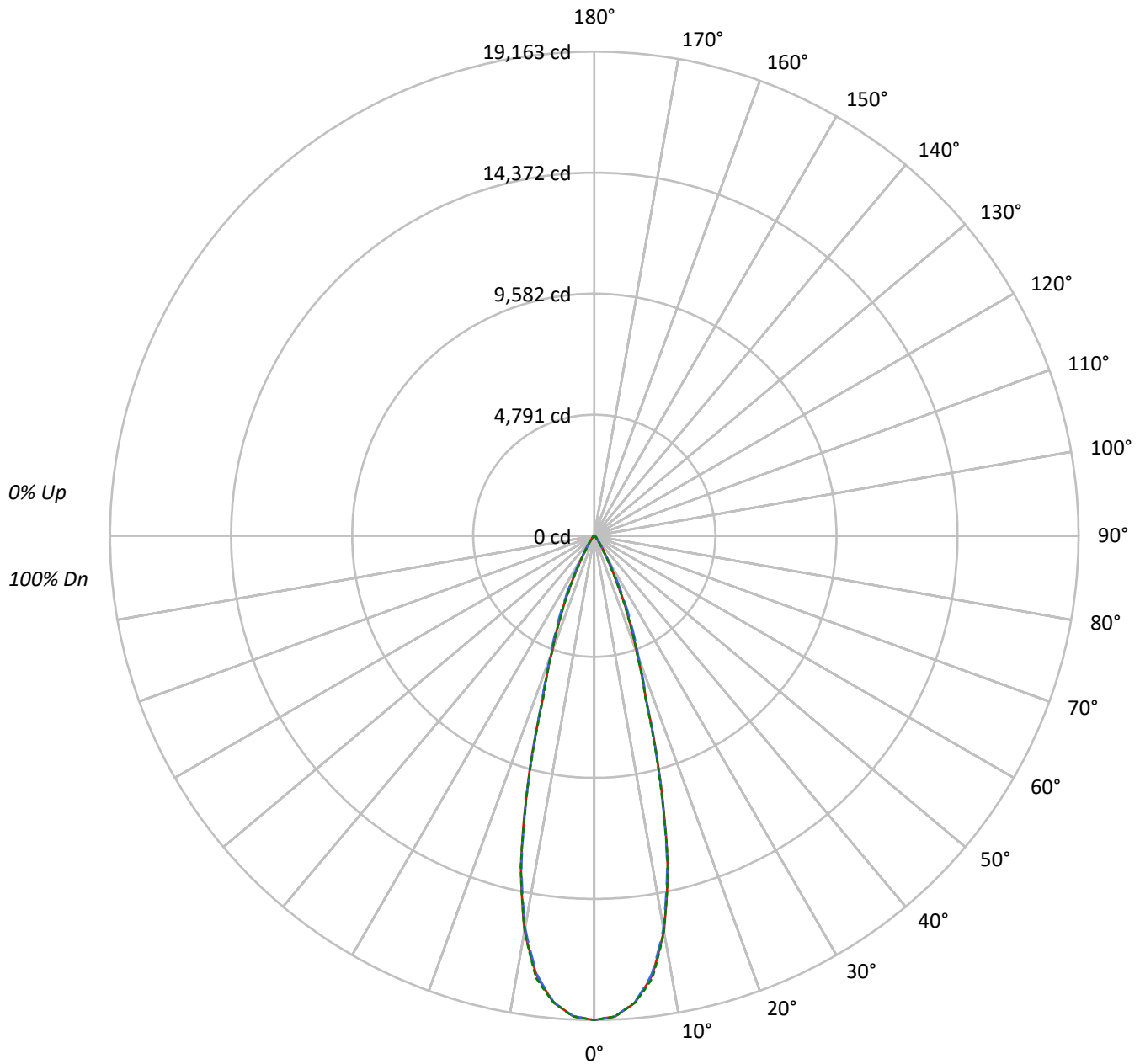


Downlight

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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°	1466809	1466809	1466809
5°	1424697	1423037	1424774
10°	1234004	1225299	1233708
15°	805130	800804	796778
20°	400355	415376	399818
25°	201673	227415	197535
30°	80748	87978	70354
35°	37452	35872	30070
40°	16167	17956	15228
45°	11409	14159	11507
50°	3918	10312	4144
55°	2255	4270	2389
60°	1577	1868	1577
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°	1685.1	28.3
10°-20°	2713.9	45.5
20°-30°	1172.7	19.7
30°-40°	267.3	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°	5571.7	93.5
0°-40°	5839.0	98.0
0°-60°	5953.2	99.9
0°-90°	5959.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5959.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19163	19163	19163	19163	19163	
5°	18542	18524	18520	18559	18543	1686
15°	10160	10038	10106	10073	10055	2721
25°	2388	2478	2693	2415	2339	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°	19163.1	19163.1	19163.1	19163.1	19163.1
2.5°	19036.1	19022.9	19030.4	19039.8	19043.6
5°	18542.1	18524.2	18520.5	18559.1	18543.1
7.5°	17545.8	17520.4	17481.8	17569.3	17651.1
10°	15876.7	15848.5	15764.7	15806.1	15872.9
12.5°	13412.6	13321.4	13319.5	13451.2	13433.3
15°	10160.2	10037.8	10105.6	10072.7	10054.8
17.5°	6832.4	6785.4	6875.7	6848.4	6730.8
20°	4915.0	4927.2	5099.4	5012.8	4908.4
22.5°	3586.5	3630.7	3834.9	3611.9	3530.0
25°	2387.9	2478.2	2692.7	2415.1	2338.9
27.5°	1468.7	1510.1	1727.4	1449.8	1408.4
30°	913.6	892.9	995.4	854.3	796.0
32.5°	599.3	573.0	605.9	543.8	496.8
35°	400.8	409.3	383.9	381.0	321.8
37.5°	250.3	287.9	254.0	271.0	207.0
40°	161.8	208.9	179.7	198.5	152.4
42.5°	132.7	160.9	147.7	157.1	135.5
45°	105.4	130.8	130.8	130.8	106.3
47.5°	58.3	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	26.3	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°	10.3	10.3	12.2	11.3	10.3
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



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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)