

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: P753016

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753016
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-EU4DR3070959030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 7350.9 lumens
Efficiency: N/A
Efficacy: 101.5 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): 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

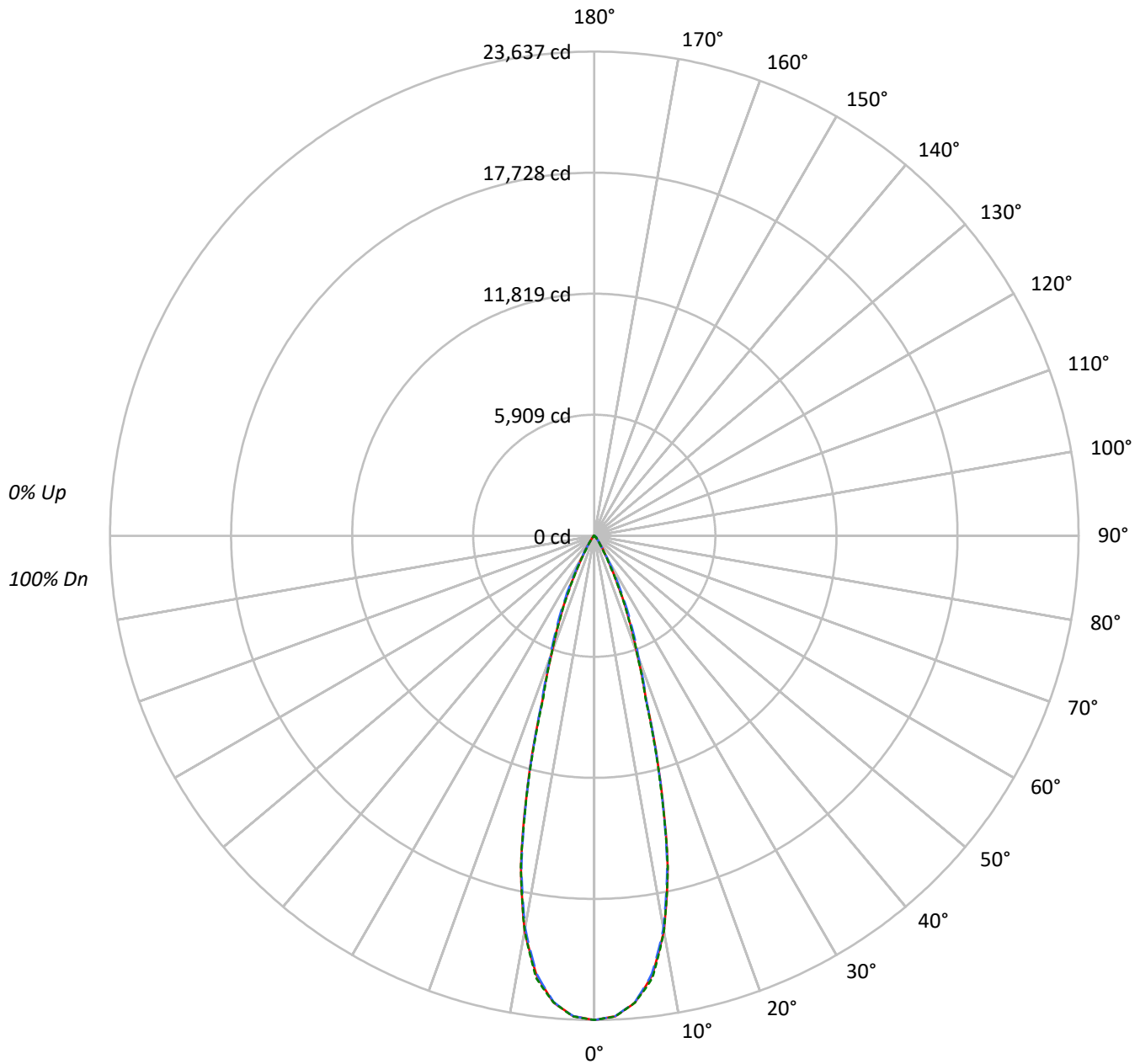


Downlight

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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°	1809233	1809233	1809233
5°	1757296	1755244	1757388
10°	1522089	1511355	1521723
15°	993088	987755	982786
20°	493818	512341	493150
25°	248749	280505	243656
30°	99592	108519	86776
35°	46198	44245	37087
40°	19944	22152	18785
45°	14072	17461	14191
50°	4835	12718	5109
55°	2789	5271	2936
60°	1960	2312	1960
65°	1268	1268	1268
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2078.5	28.3
10°-20°	3347.4	45.5
20°-30°	1446.5	19.7
30°-40°	329.7	4.5
40°-50°	113.2	1.5
50°-60°	27.6	0.4
60°-70°	7.2	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°	6872.4	93.5
0°-40°	7202.1	98.0
0°-60°	7343.0	99.9
0°-90°	7350.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7350.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23637	23637	23637	23637	23637	
5°	22871	22849	22844	22892	22872	2080
15°	12532	12381	12465	12424	12402	3356
25°	2945	3057	3321	2979	2885	1410
35°	494	505	474	470	397	335
45°	130	161	161	161	131	92
55°	21	22	40	23	22	20
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°	23636.7	23636.7	23636.7	23636.7	23636.7
2.5°	23480.1	23463.8	23473.1	23484.7	23489.3
5°	22870.8	22848.8	22844.1	22891.7	22872.0
7.5°	21641.9	21610.5	21562.9	21670.9	21771.8
10°	19583.2	19548.3	19445.1	19496.1	19578.5
12.5°	16543.9	16431.3	16429.0	16591.4	16569.4
15°	12532.1	12381.2	12464.8	12424.1	12402.1
17.5°	8427.4	8369.4	8480.8	8447.2	8302.1
20°	6062.4	6077.5	6289.8	6183.1	6054.2
22.5°	4423.8	4478.3	4730.1	4455.1	4354.1
25°	2945.3	3056.7	3321.3	2979.0	2885.0
27.5°	1811.5	1862.6	2130.6	1788.3	1737.2
30°	1126.8	1101.3	1227.8	1053.7	981.8
32.5°	739.2	706.7	747.4	670.8	612.7
35°	494.4	504.8	473.5	470.0	396.9
37.5°	308.7	355.1	313.3	334.2	255.3
40°	199.6	257.6	221.7	244.9	188.0
42.5°	163.6	198.4	182.2	193.8	167.1
45°	130.0	161.3	161.3	161.3	131.1
47.5°	71.9	107.9	138.1	110.2	76.6
50°	40.6	54.5	106.8	56.9	42.9
52.5°	27.9	31.3	73.1	32.5	29.0
55°	20.9	22.0	39.5	23.2	22.0
57.5°	16.2	17.4	20.9	17.4	16.2
60°	12.8	12.8	15.1	13.9	12.8
62.5°	9.3	9.3	10.4	9.3	9.3
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.6	4.6	4.6	4.6
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	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



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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)