

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: P753028

Luminaire Tested: LD4D75BD010-EU4DR3070959035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753028
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-EU4DR3070959035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7074.6 lumens
Efficiency: N/A
Efficacy: 97.7 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

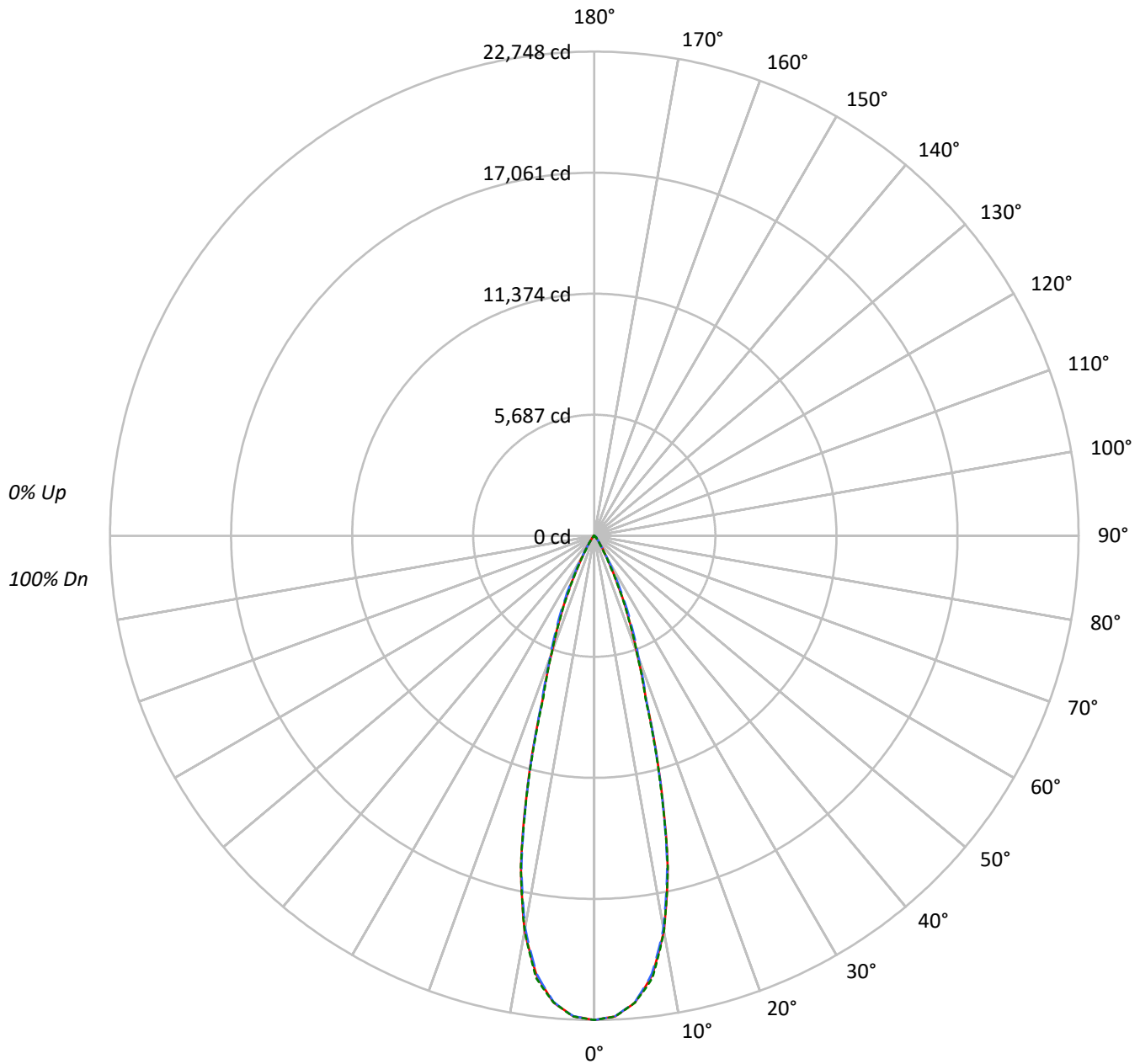


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1741232	1741232	1741232
5°	1691248	1689273	1691332
10°	1464876	1454546	1464526
15°	955757	950622	945843
20°	475254	493084	474618
25°	239400	269965	234493
30°	95853	104435	83515
35°	44460	42582	35695
40°	19195	21313	18076
45°	13542	16800	13661
50°	4656	12241	4918
55°	2682	5071	2829
60°	1883	2220	1883
65°	1213	1213	1213
70°	761	492	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16800 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2000.4	28.3
10°-20°	3221.6	45.5
20°-30°	1392.1	19.7
30°-40°	317.3	4.5
40°-50°	108.9	1.5
50°-60°	26.6	0.4
60°-70°	6.9	0.1
70°-80°	0.7	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°	6614.1	93.5
0°-40°	6931.4	98.0
0°-60°	7067.0	99.9
0°-90°	7074.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7074.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22748	22748	22748	22748	22748	
5°	22011	21990	21986	22031	22012	2002
15°	12061	11916	11996	11957	11936	3229
25°	2835	2942	3196	2867	2776	1357
35°	476	486	456	452	382	323
45°	125	155	155	155	126	89
55°	20	21	38	22	21	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°	22748.3	22748.3	22748.3	22748.3	22748.3
2.5°	22597.5	22581.9	22590.8	22602.0	22606.4
5°	22011.2	21989.9	21985.5	22031.3	22012.3
7.5°	20828.4	20798.2	20752.5	20856.3	20953.5
10°	18847.1	18813.6	18714.2	18763.3	18842.6
12.5°	15922.0	15813.7	15811.4	15967.8	15946.6
15°	12061.0	11915.8	11996.2	11957.1	11935.9
17.5°	8110.7	8054.8	8162.0	8129.7	7990.0
20°	5834.5	5849.0	6053.4	5950.7	5826.7
22.5°	4257.5	4310.0	4552.3	4287.6	4190.5
25°	2834.6	2941.8	3196.5	2867.0	2776.5
27.5°	1743.4	1792.6	2050.6	1721.1	1671.9
30°	1084.5	1059.9	1181.6	1014.1	944.9
32.5°	711.4	680.2	719.3	645.5	589.7
35°	475.8	485.8	455.7	452.3	382.0
37.5°	297.1	341.8	301.6	321.7	245.7
40°	192.1	247.9	213.3	235.7	180.9
42.5°	157.5	191.0	175.3	186.5	160.8
45°	125.1	155.2	155.2	155.2	126.2
47.5°	69.2	103.9	132.9	106.1	73.7
50°	39.1	52.5	102.8	54.7	41.3
52.5°	26.8	30.2	70.4	31.3	27.9
55°	20.1	21.2	38.0	22.3	21.2
57.5°	15.6	16.8	20.1	16.8	15.6
60°	12.3	12.3	14.5	13.4	12.3
62.5°	8.9	8.9	10.1	8.9	8.9
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.2	2.2	2.2	3.4
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)