

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: P753053

Luminaire Tested: LD4D75BD010-EU4DR3070959050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753053
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-EU4DR3070959050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6004.6 lumens
Efficiency: N/A
Efficacy: 82.9 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 (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

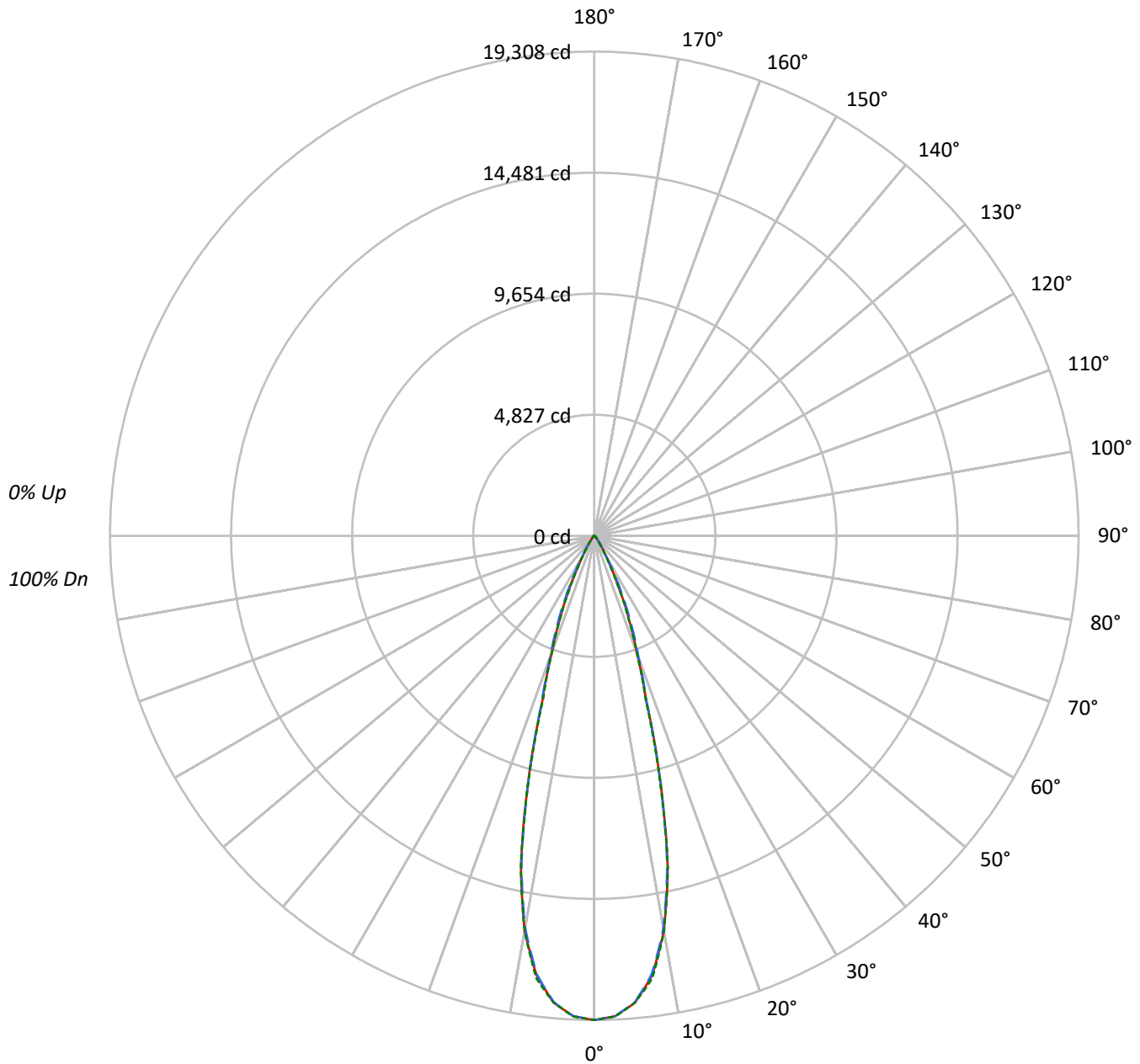


Downlight

TEST NUMBER: P753053

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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°	1477877	1477877	1477877
5°	1435446	1433771	1435523
10°	1243315	1234548	1243020
15°	811200	806842	802785
20°	403369	418504	402831
25°	203193	229130	199030
30°	81358	88641	70885
35°	37732	36143	30294
40°	16287	18096	15348
45°	11496	14267	11593
50°	3953	10384	4180
55°	2282	4297	2402
60°	1592	1883	1592
65°	1032	1032	1032
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: 14267 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1697.8	28.3
10°-20°	2734.3	45.5
20°-30°	1181.6	19.7
30°-40°	269.3	4.5
40°-50°	92.5	1.5
50°-60°	22.6	0.4
60°-70°	5.9	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°	5613.7	93.5
0°-40°	5883.1	98.0
0°-60°	5998.1	99.9
0°-90°	6004.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6004.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19308	19308	19308	19308	19308	
5°	18682	18664	18660	18699	18683	1699
15°	10237	10114	10182	10149	10131	2741
25°	2406	2497	2713	2433	2357	1152
35°	404	412	387	384	324	274
45°	106	132	132	132	107	75
55°	17	18	32	19	18	17
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°	19307.7	19307.7	19307.7	19307.7	19307.7
2.5°	19179.7	19166.4	19174.0	19183.5	19187.3
5°	18682.0	18664.0	18660.2	18699.1	18683.0
7.5°	17678.1	17652.6	17613.7	17701.8	17784.3
10°	15996.5	15968.1	15883.7	15925.4	15992.7
12.5°	13513.8	13421.9	13420.0	13552.7	13534.7
15°	10236.8	10113.6	10181.8	10148.7	10130.6
17.5°	6883.9	6836.5	6927.6	6900.1	6781.6
20°	4952.0	4964.4	5137.8	5050.6	4945.4
22.5°	3613.5	3658.1	3863.8	3639.1	3556.7
25°	2405.9	2496.9	2713.0	2433.4	2356.6
27.5°	1479.7	1521.4	1740.4	1460.8	1419.1
30°	920.5	899.6	1002.9	860.7	802.0
32.5°	603.8	577.3	610.5	547.9	500.5
35°	403.8	412.4	386.8	383.9	324.2
37.5°	252.2	290.1	255.9	273.0	208.5
40°	163.0	210.4	181.1	200.0	153.6
42.5°	133.7	162.1	148.8	158.3	136.5
45°	106.2	131.8	131.8	131.8	107.1
47.5°	58.8	88.2	112.8	90.1	62.6
50°	33.2	44.6	87.2	46.4	35.1
52.5°	22.8	25.6	59.7	26.5	23.7
55°	17.1	18.0	32.2	19.0	18.0
57.5°	13.3	14.2	17.1	14.2	13.3
60°	10.4	10.4	12.3	11.4	10.4
62.5°	7.6	7.6	8.5	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
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)