

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: P753054

Luminaire Tested: LD4D75BD010-EU4DR3070959050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753054
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-EU4DR3070959050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7458.3 lumens
Efficiency: N/A
Efficacy: 103.0 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

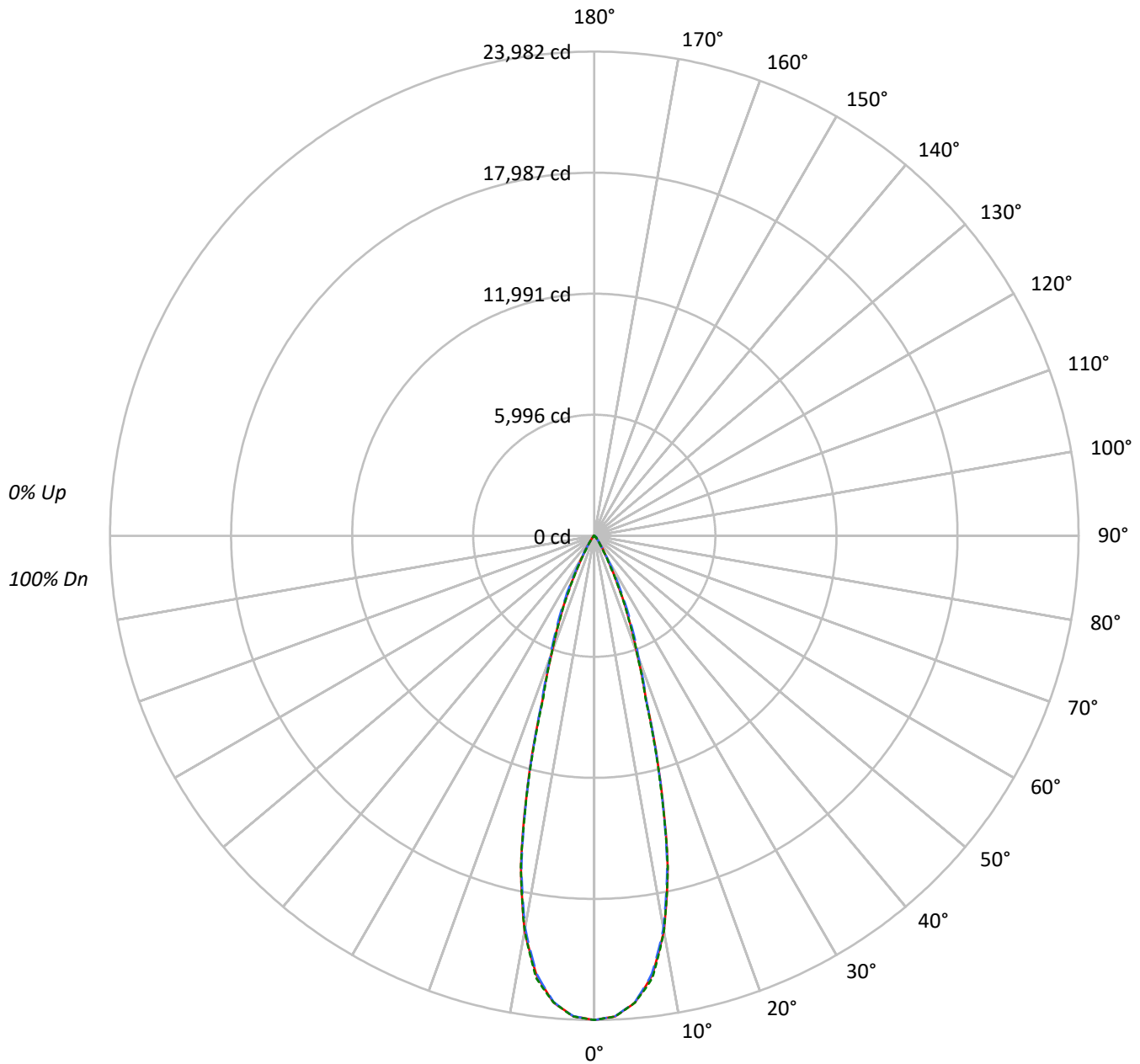


Downlight

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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°	1835656	1835656	1835656
5°	1782959	1780877	1783051
10°	1544310	1533421	1543945
15°	1007590	1002177	997137
20°	501026	519826	500358
25°	252381	284601	247212
30°	101050	110101	88040
35°	46871	44890	37629
40°	20234	22472	19055
45°	14278	17720	14397
50°	4906	12896	5192
55°	2829	5338	2989
60°	1990	2342	1990
65°	1286	1286	1286
70°	783	537	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: 17720 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2108.8	28.3
10°-20°	3396.3	45.5
20°-30°	1467.6	19.7
30°-40°	334.5	4.5
40°-50°	114.9	1.5
50°-60°	28.1	0.4
60°-70°	7.3	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°	6972.8	93.5
0°-40°	7307.3	98.0
0°-60°	7450.2	99.9
0°-90°	7458.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7458.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23982	23982	23982	23982	23982	
5°	23205	23182	23178	23226	23206	2111
15°	12715	12562	12647	12606	12583	3405
25°	2988	3101	3370	3022	2927	1430
35°	502	512	480	477	403	340
45°	132	164	164	164	133	94
55°	21	22	40	24	22	21
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°	23981.9	23981.9	23981.9	23981.9	23981.9
2.5°	23822.9	23806.5	23815.9	23827.7	23832.4
5°	23204.8	23182.4	23177.7	23226.0	23206.0
7.5°	21957.9	21926.1	21877.8	21987.3	22089.8
10°	19869.1	19833.8	19729.0	19780.8	19864.4
12.5°	16785.4	16671.2	16668.9	16833.7	16811.3
15°	12715.1	12562.0	12646.8	12605.6	12583.2
17.5°	8550.5	8491.6	8604.7	8570.5	8423.3
20°	6150.9	6166.2	6381.7	6273.3	6142.7
22.5°	4488.4	4543.7	4799.2	4520.2	4417.7
25°	2988.3	3101.4	3369.8	3022.5	2927.1
27.5°	1838.0	1889.8	2161.8	1814.4	1762.6
30°	1143.3	1117.4	1245.7	1069.1	996.1
32.5°	750.0	717.1	758.3	680.6	621.7
35°	501.6	512.2	480.4	476.9	402.7
37.5°	313.2	360.3	317.9	339.1	259.0
40°	202.5	261.4	224.9	248.4	190.7
42.5°	166.0	201.3	184.9	196.6	169.5
45°	131.9	163.7	163.7	163.7	133.0
47.5°	73.0	109.5	140.1	111.9	77.7
50°	41.2	55.3	108.3	57.7	43.6
52.5°	28.3	31.8	74.2	33.0	29.4
55°	21.2	22.4	40.0	23.5	22.4
57.5°	16.5	17.7	21.2	17.7	16.5
60°	13.0	13.0	15.3	14.1	13.0
62.5°	9.4	9.4	10.6	9.4	9.4
65°	7.1	7.1	7.1	7.1	7.1
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.4	2.4	2.4	3.5
72.5°	2.4	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)