

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: P753017

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753017
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-EU4DR3070959030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6245.1 lumens
Efficiency: N/A
Efficacy: 86.3 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

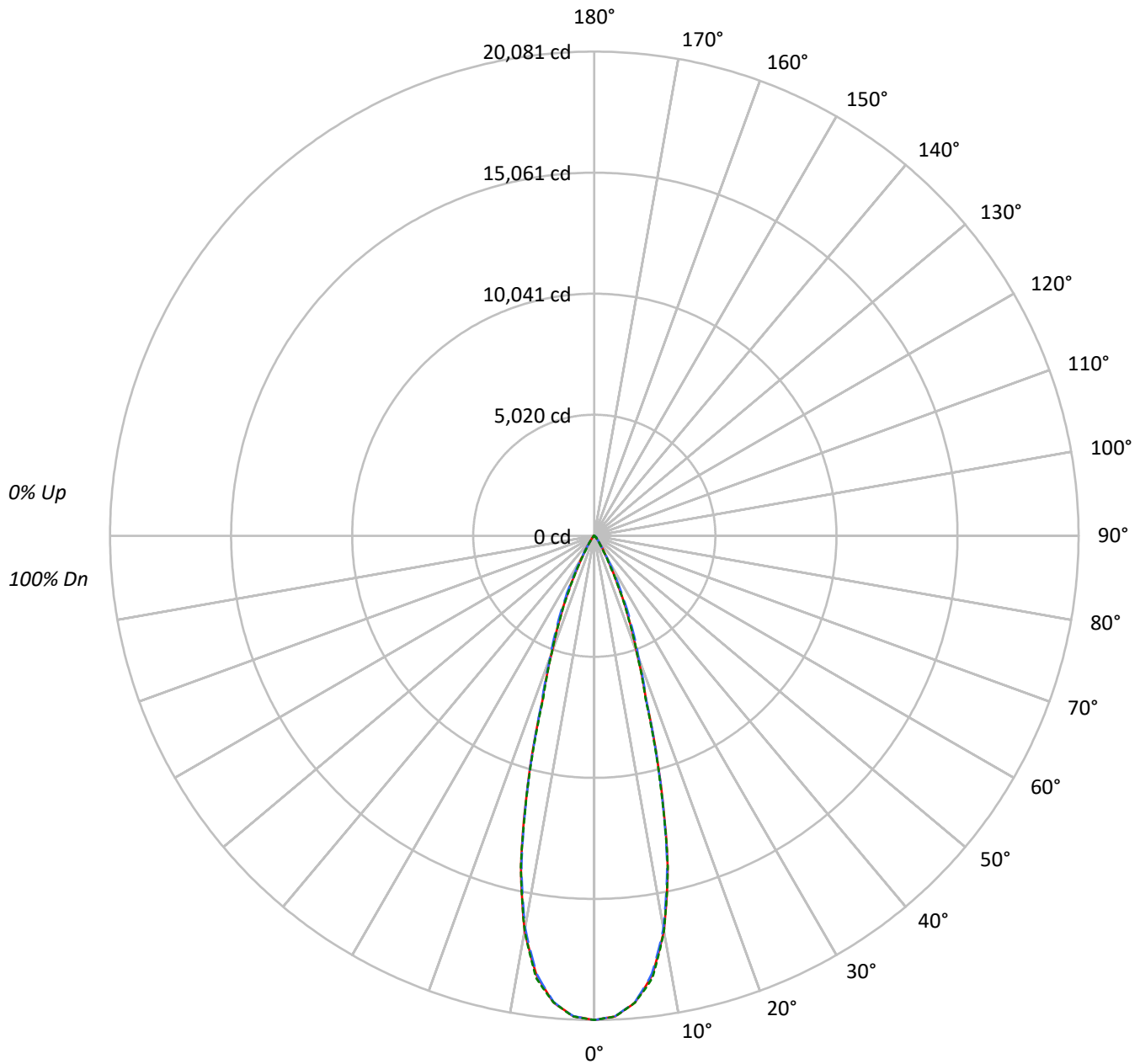


Downlight

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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
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°	1537083	1537083	1537083
5°	1492958	1491213	1493034
10°	1293129	1284012	1292826
15°	843706	839173	834950
20°	419530	435275	418968
25°	211335	238310	207002
30°	84611	92194	73722
35°	39246	37592	31509
40°	16946	18815	15957
45°	11951	14830	12059
50°	4108	10801	4346
55°	2362	4471	2496
60°	1653	1960	1653
65°	1069	1069	1069
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14830 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1765.8	28.3
10°-20°	2843.9	45.5
20°-30°	1228.9	19.7
30°-40°	280.1	4.5
40°-50°	96.2	1.5
50°-60°	23.5	0.4
60°-70°	6.1	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°	5838.7	93.5
0°-40°	6118.8	98.0
0°-60°	6238.4	99.9
0°-90°	6245.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6245.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20081	20081	20081	20081	20081	
5°	19430	19412	19408	19448	19432	1767
15°	10647	10519	10590	10555	10536	2851
25°	2502	2597	2822	2531	2451	1198
35°	420	429	402	399	337	285
45°	110	137	137	137	111	78
55°	18	19	34	20	19	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°	20081.2	20081.2	20081.2	20081.2	20081.2
2.5°	19948.1	19934.3	19942.2	19952.1	19956.0
5°	19430.5	19411.8	19407.8	19448.3	19431.5
7.5°	18386.4	18359.8	18319.4	18411.1	18496.9
10°	16637.4	16607.8	16520.1	16563.5	16633.5
12.5°	14055.3	13959.6	13957.7	14095.7	14077.0
15°	10647.0	10518.8	10589.8	10555.3	10536.5
17.5°	7159.8	7110.5	7205.1	7176.5	7053.3
20°	5150.4	5163.3	5343.7	5253.0	5143.5
22.5°	3758.3	3804.7	4018.6	3784.9	3699.2
25°	2502.3	2596.9	2821.7	2530.9	2451.0
27.5°	1539.0	1582.4	1810.1	1519.3	1475.9
30°	957.3	935.6	1043.1	895.2	834.1
32.5°	628.0	600.4	634.9	569.9	520.6
35°	420.0	428.9	402.3	399.3	337.2
37.5°	262.3	301.7	266.2	283.9	216.9
40°	169.6	218.9	188.3	208.0	159.7
42.5°	139.0	168.6	154.8	164.6	142.0
45°	110.4	137.0	137.0	137.0	111.4
47.5°	61.1	91.7	117.3	93.7	65.1
50°	34.5	46.3	90.7	48.3	36.5
52.5°	23.7	26.6	62.1	27.6	24.6
55°	17.7	18.7	33.5	19.7	18.7
57.5°	13.8	14.8	17.7	14.8	13.8
60°	10.8	10.8	12.8	11.8	10.8
62.5°	7.9	7.9	8.9	7.9	7.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	3.0	3.9	3.9	3.9	3.9
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)