

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: P784406

Luminaire Tested: LER4DD35BD010-EC4DR3020359030-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784406
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: LER4DD35BD010-EC4DR3020359030-4LBDP1LI
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: 3276.7 lumens
Efficiency: N/A
Efficacy: 106.4 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): 30.8
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

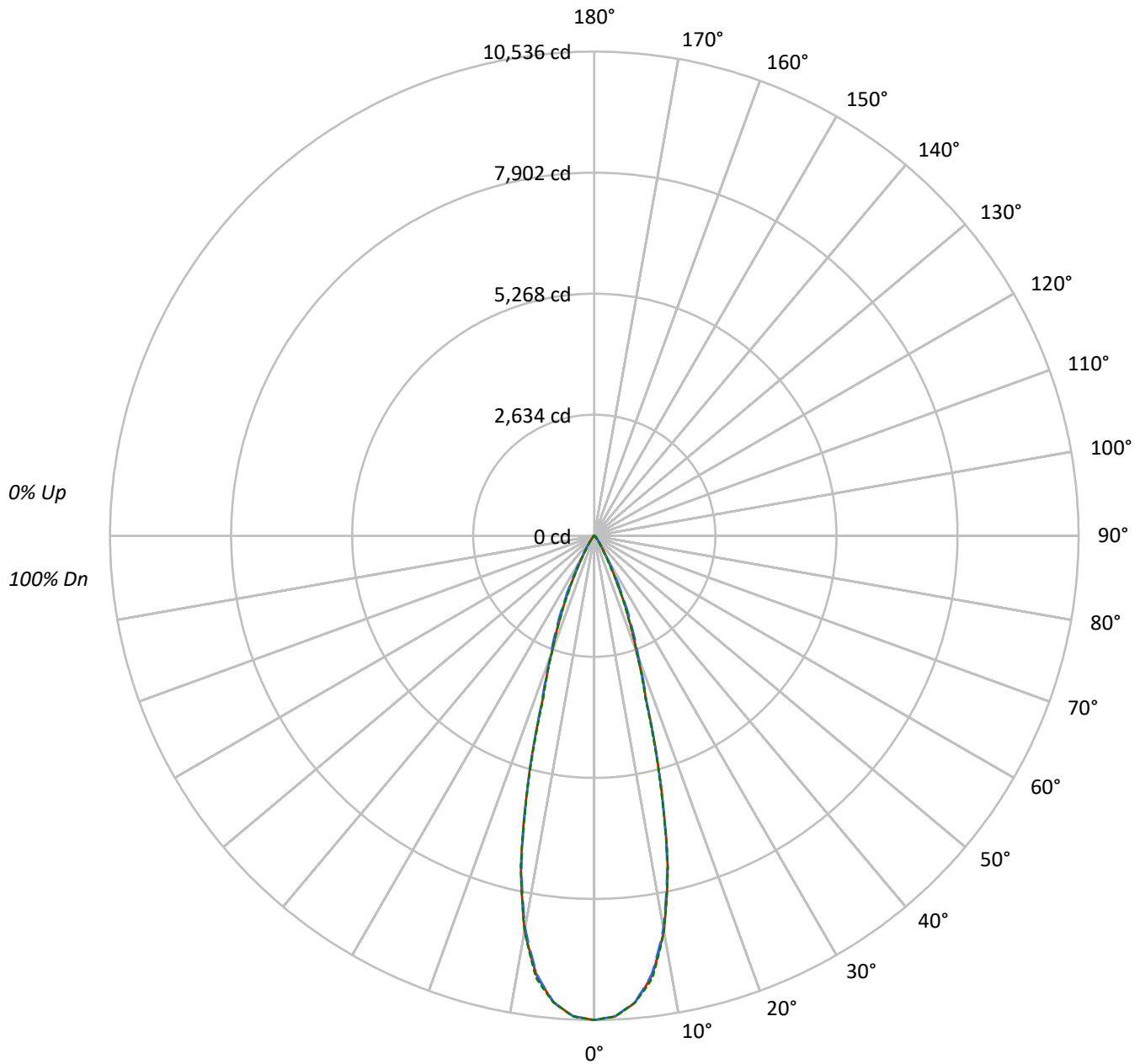


Downlight

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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°	806469	806469	806469
5°	783318	782403	783356
10°	678470	673690	678315
15°	442670	440293	438082
20°	220118	228378	219825
25°	110883	125038	108611
30°	44396	48373	38677
35°	20595	19726	16530
40°	8893	9872	8373
45°	6268	7783	6333
50°	2155	5668	2274
55°	1241	2349	1308
60°	873	1026	873
65°	561	561	561
70°	358	224	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7783 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.5	28.3
10°-20°	1492.1	45.5
20°-30°	644.8	19.7
30°-40°	147.0	4.5
40°-50°	50.5	1.5
50°-60°	12.3	0.4
60°-70°	3.2	0.1
70°-80°	0.3	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°	3063.4	93.5
0°-40°	3210.4	98.0
0°-60°	3273.1	99.9
0°-90°	3276.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3276.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10536	10536	10536	10536	10536	
5°	10195	10185	10183	10204	10195	927
15°	5586	5519	5556	5538	5528	1496
25°	1313	1362	1480	1328	1286	628
35°	220	225	211	210	177	149
45°	58	72	72	72	58	41
55°	9	10	18	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	10536.1	10536.1	10536.1	10536.1	10536.1
2.5°	10466.3	10459.0	10463.2	10468.3	10470.4
5°	10194.7	10184.9	10182.8	10204.0	10195.2
7.5°	9646.9	9632.9	9611.7	9659.8	9704.8
10°	8729.2	8713.7	8667.7	8690.4	8727.2
12.5°	7374.5	7324.3	7323.2	7395.7	7385.8
15°	5586.2	5518.9	5556.2	5538.1	5528.3
17.5°	3756.5	3730.7	3780.3	3765.3	3700.7
20°	2702.3	2709.0	2803.7	2756.1	2698.7
22.5°	1971.9	1996.2	2108.5	1985.9	1940.9
25°	1312.9	1362.5	1480.5	1327.9	1286.0
27.5°	807.5	830.2	949.7	797.1	774.4
30°	502.3	490.9	547.3	469.7	437.6
32.5°	329.5	315.0	333.1	299.0	273.1
35°	220.4	225.0	211.1	209.5	176.9
37.5°	137.6	158.3	139.7	149.0	113.8
40°	89.0	114.8	98.8	109.1	83.8
42.5°	72.9	88.5	81.2	86.4	74.5
45°	57.9	71.9	71.9	71.9	58.5
47.5°	32.1	48.1	61.6	49.1	34.1
50°	18.1	24.3	47.6	25.3	19.1
52.5°	12.4	14.0	32.6	14.5	12.9
55°	9.3	9.8	17.6	10.3	9.8
57.5°	7.2	7.8	9.3	7.8	7.2
60°	5.7	5.7	6.7	6.2	5.7
62.5°	4.1	4.1	4.7	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)