

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: P780991

Luminaire Tested: LER4D35BD010-EC4DR3020359024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780991
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: LER4D35BD010-EC4DR3020359024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2675.6 lumens
Efficiency: N/A
Efficacy: 86.9 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): 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

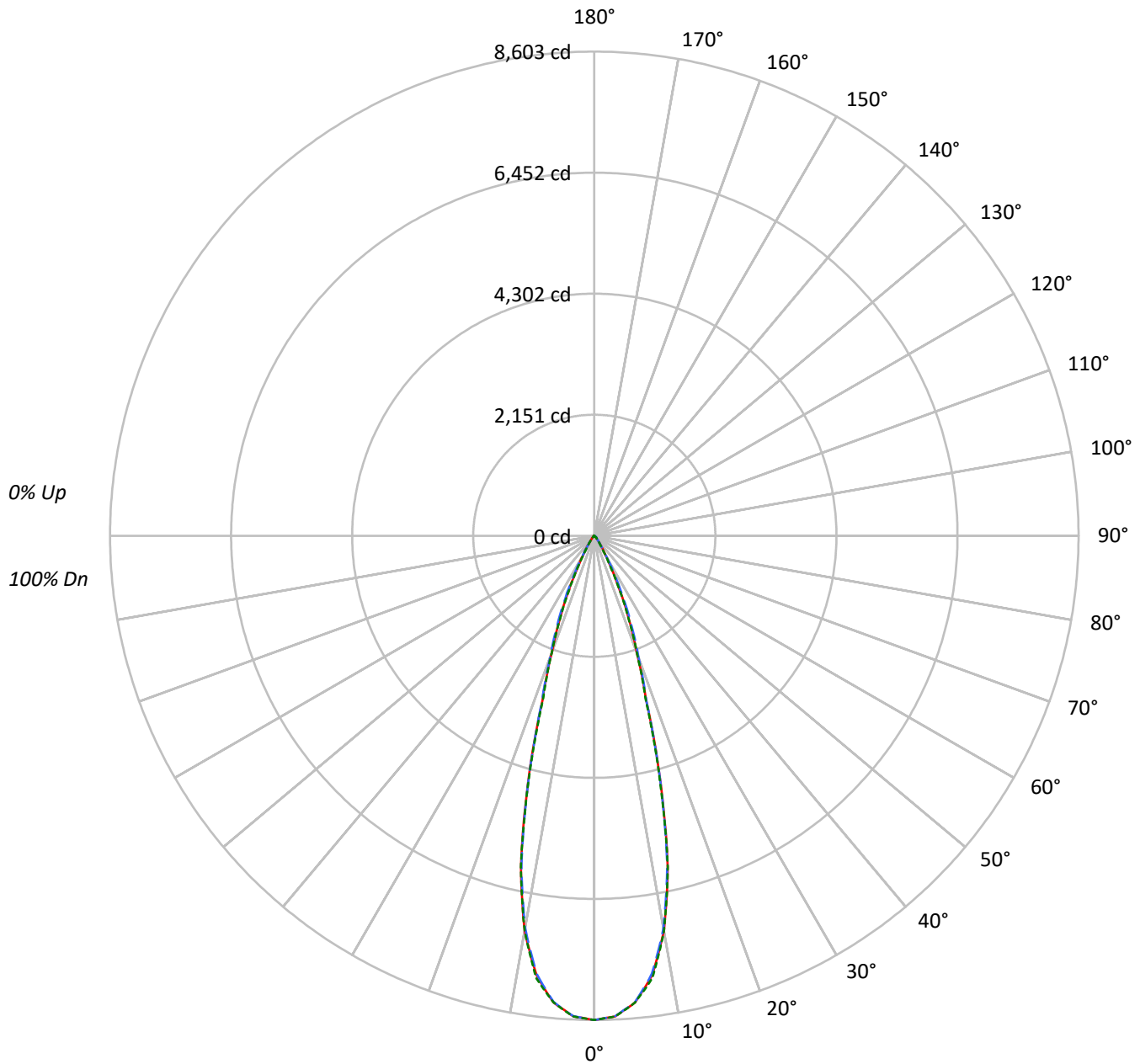


Downlight

TEST NUMBER: P780991

CATALOG NUMBER: LER4D35BD010-EC4DR3020359024-4LBS1MW

Luminous Intensity Polar Plot



TEST NUMBER: P780991

CATALOG NUMBER: LER4D35BD010-EC4DR3020359024-4LBS1MW

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°	658533	658533	658533
5°	639627	638882	639658
10°	554010	550109	553878
15°	361462	359528	357713
20°	179740	186485	179496
25°	90537	102099	88688
30°	36247	39499	31580
35°	16810	16100	13502
40°	7264	8064	6835
45°	5120	6354	5163
50°	1762	4632	1858
55°	1014	1922	1068
60°	704	842	704
65°	453	453	453
70°	291	179	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6354 cd/sqm



TEST NUMBER: P780991

CATALOG NUMBER: LER4D35BD010-EC4DR3020359024-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.5	28.3
10°-20°	1218.4	45.5
20°-30°	526.5	19.7
30°-40°	120.0	4.5
40°-50°	41.2	1.5
50°-60°	10.1	0.4
60°-70°	2.6	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°	2501.4	93.5
0°-40°	2621.4	98.0
0°-60°	2672.7	99.9
0°-90°	2675.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2675.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8603	8603	8603	8603	8603	
5°	8325	8316	8315	8332	8325	757
15°	4561	4506	4537	4522	4514	1221
25°	1072	1113	1209	1084	1050	513
35°	180	184	172	171	144	122
45°	47	59	59	59	48	34
55°	8	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P780991

CATALOG NUMBER: LER4D35BD010-EC4DR3020359024-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8603.4	8603.4	8603.4	8603.4	8603.4
2.5°	8546.3	8540.4	8543.8	8548.0	8549.7
5°	8324.6	8316.5	8314.9	8332.2	8325.0
7.5°	7877.3	7865.8	7848.5	7887.8	7924.6
10°	7127.9	7115.3	7077.7	7096.2	7126.2
12.5°	6021.7	5980.7	5979.9	6039.0	6031.0
15°	4561.4	4506.5	4537.0	4522.2	4514.1
17.5°	3067.4	3046.3	3086.9	3074.6	3021.8
20°	2206.6	2212.1	2289.4	2250.5	2203.6
22.5°	1610.2	1630.0	1721.7	1621.6	1584.8
25°	1072.0	1112.6	1208.9	1084.3	1050.1
27.5°	659.4	677.9	775.5	650.9	632.3
30°	410.1	400.9	446.9	383.5	357.3
32.5°	269.1	257.2	272.0	244.1	223.0
35°	179.9	183.7	172.3	171.1	144.5
37.5°	112.4	129.3	114.0	121.6	92.9
40°	72.7	93.8	80.7	89.1	68.4
42.5°	59.6	72.2	66.3	70.5	60.8
45°	47.3	58.7	58.7	58.7	47.7
47.5°	26.2	39.3	50.3	40.1	27.9
50°	14.8	19.9	38.9	20.7	15.6
52.5°	10.1	11.4	26.6	11.8	10.6
55°	7.6	8.0	14.4	8.4	8.0
57.5°	5.9	6.3	7.6	6.3	5.9
60°	4.6	4.6	5.5	5.1	4.6
62.5°	3.4	3.4	3.8	3.4	3.4
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.8	0.8	0.8	1.3
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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)