

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: P784415

Luminaire Tested: LER4DD35BD010-EC4DR3020359040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784415
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-EC4DR3020359040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2944.7 lumens
Efficiency: N/A
Efficacy: 95.6 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

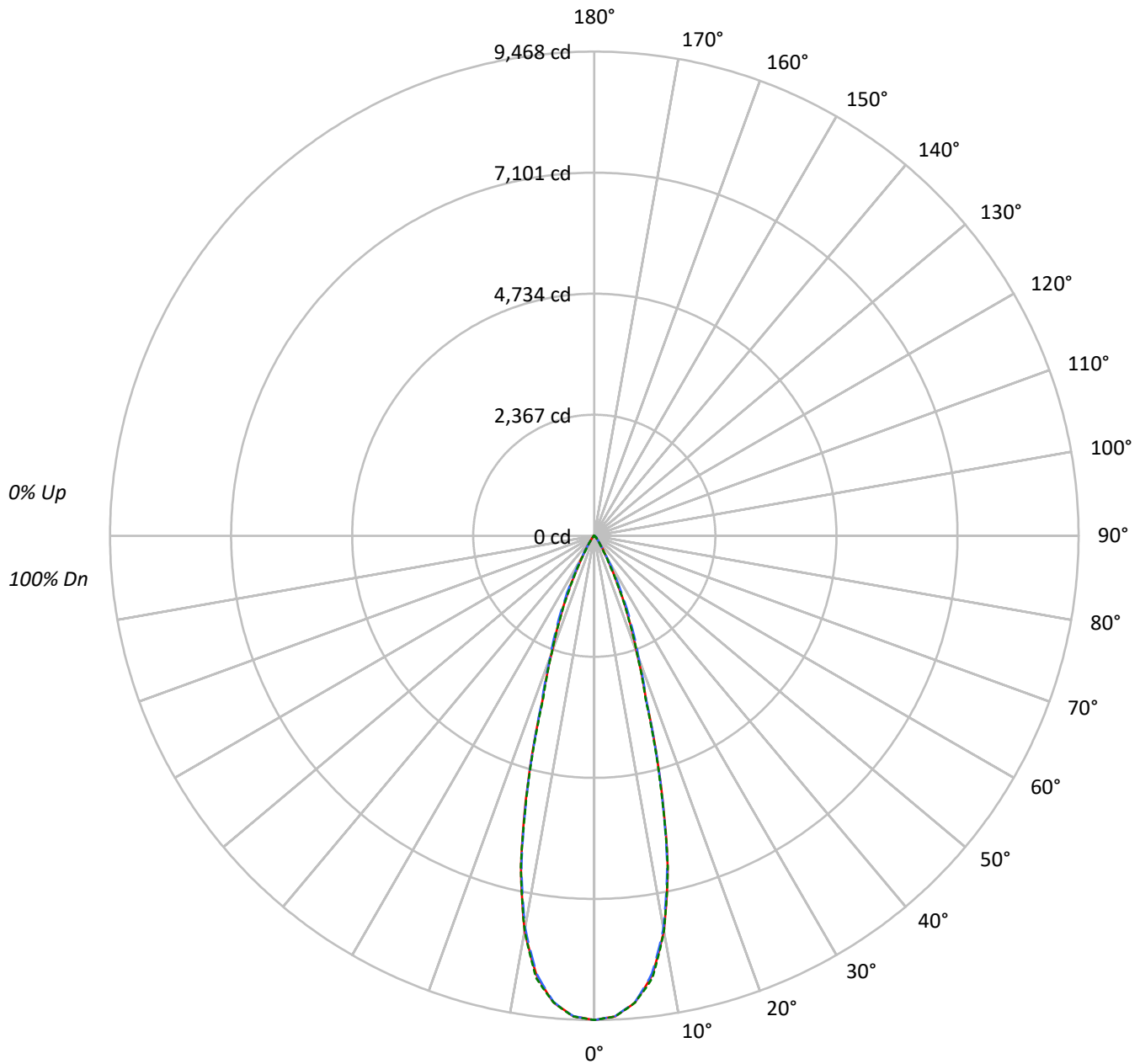


Downlight

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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				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°	724743	724743	724743
5°	703939	703117	703977
10°	609715	605417	609575
15°	397811	395671	393682
20°	197815	205236	197547
25°	99642	112369	97606
30°	39897	43468	34762
35°	18502	17726	14857
40°	7994	8873	7524
45°	5640	6993	5683
50°	1941	5097	2048
55°	1121	2108	1174
60°	781	919	781
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6993 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.6	28.3
10°-20°	1340.9	45.5
20°-30°	579.4	19.7
30°-40°	132.1	4.5
40°-50°	45.3	1.5
50°-60°	11.1	0.4
60°-70°	2.9	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°	2753.0	93.5
0°-40°	2885.0	98.0
0°-60°	2941.5	99.9
0°-90°	2944.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2944.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9468	9468	9468	9468	9468	
5°	9162	9153	9151	9170	9162	833
15°	5020	4960	4993	4977	4968	1344
25°	1180	1224	1330	1193	1156	565
35°	198	202	190	188	159	134
45°	52	65	65	65	52	37
55°	8	9	16	9	9	8
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°	9468.4	9468.4	9468.4	9468.4	9468.4
2.5°	9405.7	9399.2	9402.9	9407.5	9409.4
5°	9161.6	9152.8	9150.9	9170.0	9162.1
7.5°	8669.3	8656.8	8637.7	8680.9	8721.4
10°	7844.6	7830.7	7789.3	7809.8	7842.8
12.5°	6627.2	6582.1	6581.1	6646.2	6637.4
15°	5020.1	4959.7	4993.1	4976.9	4968.0
17.5°	3375.9	3352.6	3397.3	3383.8	3325.7
20°	2428.5	2434.5	2519.6	2476.8	2425.2
22.5°	1772.1	1793.9	1894.8	1784.6	1744.2
25°	1179.8	1224.5	1330.5	1193.3	1155.7
27.5°	725.7	746.1	853.5	716.4	695.9
30°	451.4	441.2	491.8	422.1	393.3
32.5°	296.1	283.1	299.4	268.7	245.5
35°	198.0	202.2	189.7	188.3	159.0
37.5°	123.7	142.2	125.5	133.9	102.3
40°	80.0	103.2	88.8	98.1	75.3
42.5°	65.5	79.5	73.0	77.6	66.9
45°	52.1	64.6	64.6	64.6	52.5
47.5°	28.8	43.2	55.3	44.2	30.7
50°	16.3	21.8	42.8	22.8	17.2
52.5°	11.2	12.6	29.3	13.0	11.6
55°	8.4	8.8	15.8	9.3	8.8
57.5°	6.5	7.0	8.4	7.0	6.5
60°	5.1	5.1	6.0	5.6	5.1
62.5°	3.7	3.7	4.2	3.7	3.7
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	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)