

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: P781002

Luminaire Tested: LER4D35BD010-EC4DR3020359035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781002
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-EC4DR3020359035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3485.5 lumens
Efficiency: N/A
Efficacy: 113.2 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

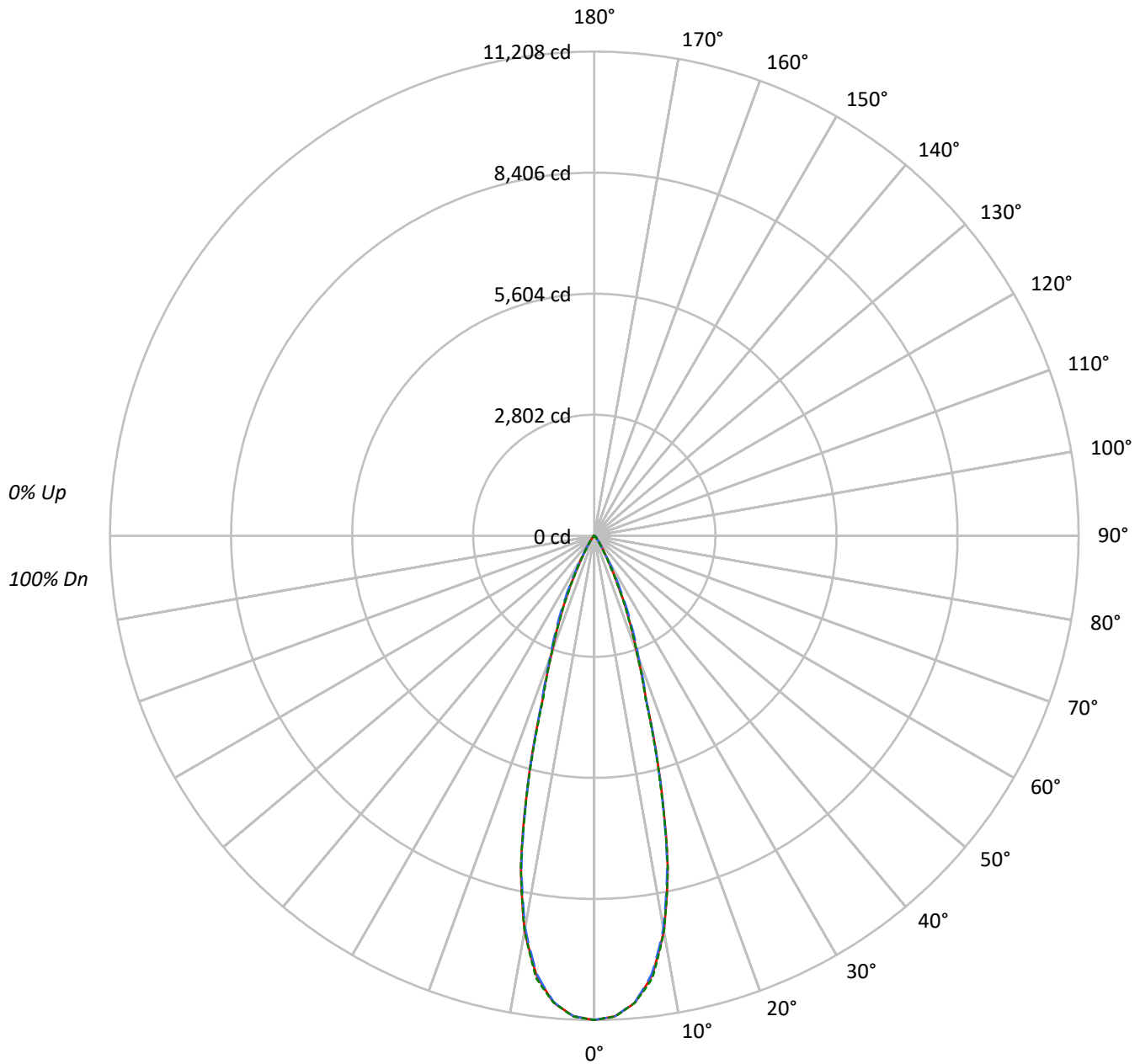


Downlight

TEST NUMBER: P781002

CATALOG NUMBER: LER4D35BD010-EC4DR3020359035-4LBS1LI

Luminous Intensity Polar Plot



TEST NUMBER: P781002

CATALOG NUMBER: LER4D35BD010-EC4DR3020359035-4LBS1LI

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	857860	857860	857860
5°	833230	832254	833276
10°	721700	716617	721529
15°	470873	468345	465992
20°	234145	242926	233827
25°	117943	133002	115528
30°	47224	51458	41143
35°	21903	20978	17586
40°	9452	10502	8903
45°	6668	8281	6733
50°	2298	6025	2429
55°	1321	2496	1401
60°	934	1102	934
65°	598	598	598
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8281 cd/sqm



TEST NUMBER: P781002

CATALOG NUMBER: LER4D35BD010-EC4DR3020359035-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	985.5	28.3
10°-20°	1587.2	45.5
20°-30°	685.9	19.7
30°-40°	156.3	4.5
40°-50°	53.7	1.5
50°-60°	13.1	0.4
60°-70°	3.4	0.1
70°-80°	0.4	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°	3258.6	93.5
0°-40°	3414.9	98.0
0°-60°	3481.7	99.9
0°-90°	3485.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3485.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11208	11208	11208	11208	11208	
5°	10844	10834	10832	10854	10845	986
15°	5942	5871	5910	5891	5880	1591
25°	1396	1449	1575	1412	1368	668
35°	234	239	224	223	188	159
45°	62	76	76	76	62	44
55°	10	10	19	11	10	10
65°	3	3	3	3	3	3
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P781002

CATALOG NUMBER: LER4D35BD010-EC4DR3020359035-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11207.5	11207.5	11207.5	11207.5	11207.5
2.5°	11133.2	11125.5	11129.9	11135.4	11137.6
5°	10844.3	10833.8	10831.6	10854.2	10844.9
7.5°	10261.6	10246.7	10224.2	10275.3	10323.2
10°	9285.4	9268.9	9220.0	9244.2	9283.2
12.5°	7844.3	7791.0	7789.9	7866.9	7856.5
15°	5942.1	5870.6	5910.2	5891.0	5880.5
17.5°	3995.9	3968.4	4021.2	4005.3	3936.5
20°	2874.5	2881.7	2982.3	2931.7	2870.6
22.5°	2097.5	2123.4	2242.8	2112.4	2064.5
25°	1396.5	1449.4	1574.8	1412.5	1367.9
27.5°	858.9	883.1	1010.3	847.9	823.7
30°	534.3	522.2	582.2	499.6	465.5
32.5°	350.5	335.1	354.4	318.0	290.5
35°	234.4	239.4	224.5	222.9	188.2
37.5°	146.4	168.4	148.6	158.5	121.1
40°	94.6	122.2	105.1	116.1	89.1
42.5°	77.6	94.1	86.4	91.9	79.2
45°	61.6	76.5	76.5	76.5	62.2
47.5°	34.1	51.2	65.5	52.3	36.3
50°	19.3	25.9	50.6	27.0	20.4
52.5°	13.2	14.9	34.7	15.4	13.8
55°	9.9	10.5	18.7	11.0	10.5
57.5°	7.7	8.3	9.9	8.3	7.7
60°	6.1	6.1	7.2	6.6	6.1
62.5°	4.4	4.4	5.0	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.7	2.2	2.2	2.2	2.2
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)