

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: P781008

Luminaire Tested: LER4D35BD010-EC4DR3020359050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781008
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-EC4DR3020359050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3281.1 lumens
Efficiency: N/A
Efficacy: 106.5 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 (A_{in}): 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

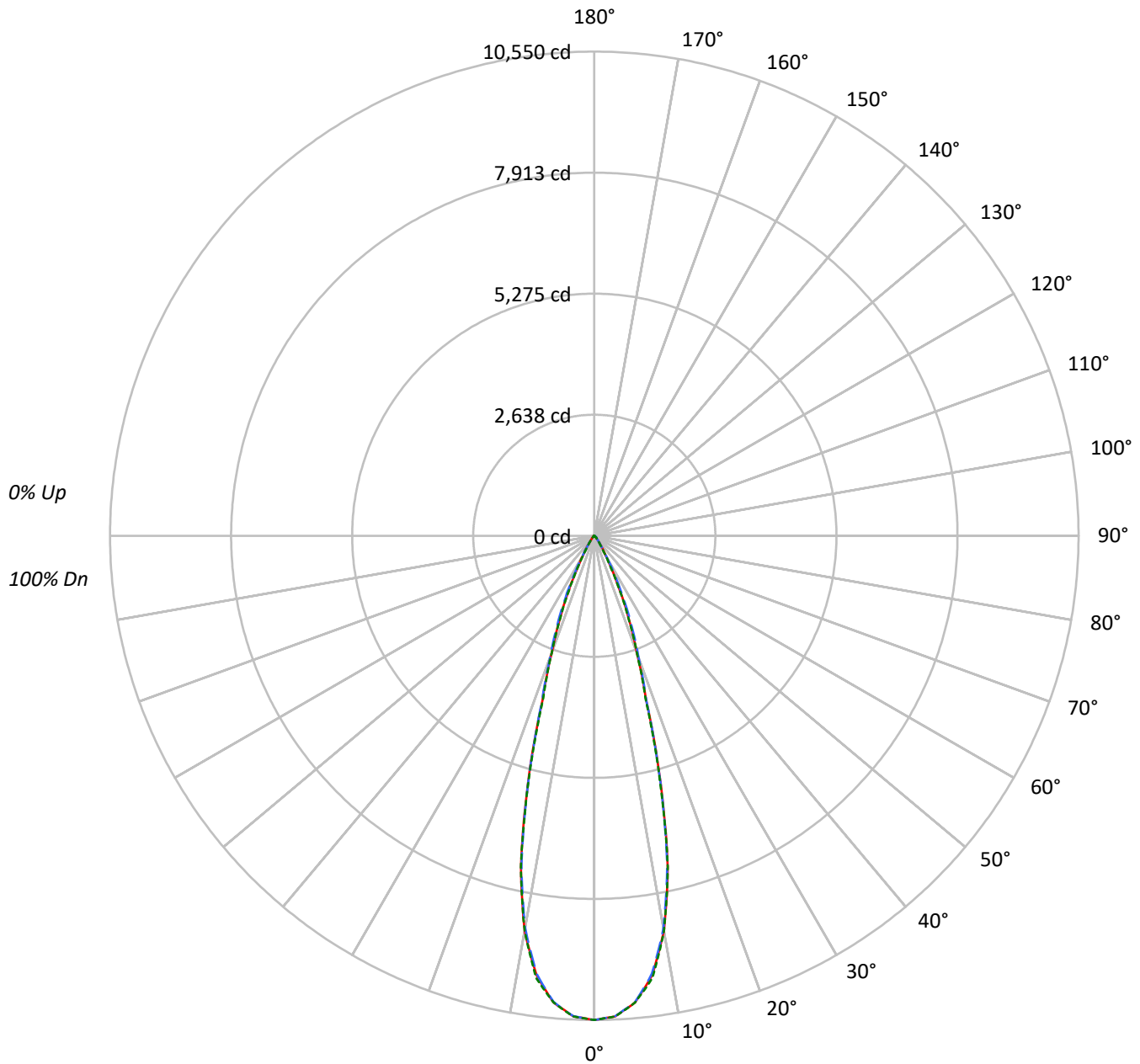


Downlight

TEST NUMBER: P781008

CATALOG NUMBER: LER4D35BD010-EC4DR3020359050-4LBS1B

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°	807548	807548	807548
5°	784363	783448	784409
10°	679379	674592	679216
15°	443265	440879	438661
20°	220411	228679	220118
25°	111026	125206	108754
30°	44458	48435	38730
35°	20623	19744	16549
40°	8903	9882	8383
45°	6278	7794	6333
50°	2155	5680	2286
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: 7794 cd/sqm

TEST NUMBER: P781008

CATALOG NUMBER: LER4D35BD010-EC4DR3020359050-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.7	28.3
10°-20°	1494.1	45.5
20°-30°	645.7	19.7
30°-40°	147.2	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°	3067.5	93.5
0°-40°	3214.7	98.0
0°-60°	3277.5	99.9
0°-90°	3281.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3281.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10550	10550	10550	10550	10550	
5°	10208	10198	10196	10218	10209	928
15°	5594	5526	5564	5546	5536	1498
25°	1315	1364	1482	1330	1288	629
35°	221	225	211	210	177	150
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°	10550.2	10550.2	10550.2	10550.2	10550.2
2.5°	10480.3	10473.0	10477.2	10482.3	10484.4
5°	10208.3	10198.5	10196.4	10217.7	10208.9
7.5°	9659.8	9645.8	9624.6	9672.7	9717.8
10°	8740.9	8725.4	8679.3	8702.1	8738.8
12.5°	7384.3	7334.1	7333.0	7405.6	7395.7
15°	5593.7	5526.3	5563.6	5545.5	5535.6
17.5°	3761.6	3735.7	3785.4	3770.4	3705.6
20°	2705.9	2712.7	2807.4	2759.8	2702.3
22.5°	1974.5	1998.9	2111.3	1988.5	1943.5
25°	1314.6	1364.4	1482.5	1329.7	1287.7
27.5°	808.6	831.4	951.0	798.2	775.4
30°	503.0	491.6	548.0	470.3	438.2
32.5°	330.0	315.4	333.6	299.4	273.5
35°	220.7	225.3	211.3	209.8	177.1
37.5°	137.8	158.5	139.9	149.2	114.0
40°	89.1	115.0	98.9	109.3	83.9
42.5°	73.0	88.6	81.3	86.5	74.6
45°	58.0	72.0	72.0	72.0	58.5
47.5°	32.1	48.2	61.6	49.2	34.2
50°	18.1	24.3	47.7	25.4	19.2
52.5°	12.4	14.0	32.6	14.5	12.9
55°	9.3	9.8	17.6	10.4	9.8
57.5°	7.3	7.8	9.3	7.8	7.3
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



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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)