

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: P780998

Luminaire Tested: LER4D35BD010-EC4DR3020359030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780998
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-EC4DR3020359030-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 3449.1 lumens
Efficiency: N/A
Efficacy: 112.0 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

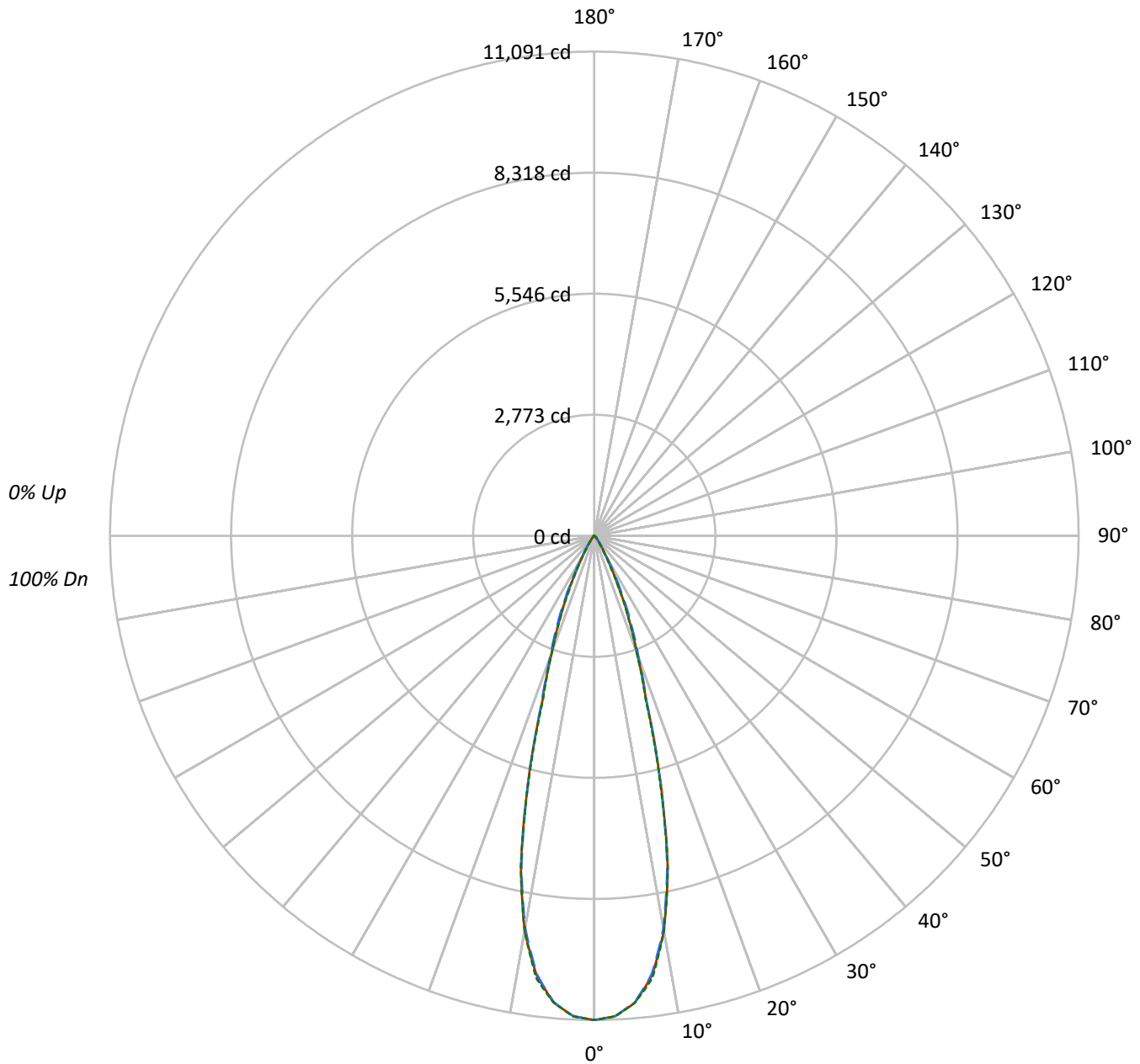


Downlight

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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°	848912	848912	848912
5°	824548	823580	824586
10°	714184	709148	714013
15°	465968	463464	461134
20°	231701	240400	231391
25°	116719	131617	114328
30°	46729	50918	40719
35°	21679	20763	17399
40°	9363	10392	8813
45°	6603	8194	6657
50°	2274	5966	2394
55°	1308	2469	1375
60°	919	1087	919
65°	598	598	598
70°	358	246	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: 8194 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.3	28.3
10°-20°	1570.7	45.5
20°-30°	678.7	19.7
30°-40°	154.7	4.5
40°-50°	53.1	1.5
50°-60°	13.0	0.4
60°-70°	3.4	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°	3224.6	93.5
0°-40°	3379.3	98.0
0°-60°	3445.4	99.9
0°-90°	3449.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3449.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11091	11091	11091	11091	11091	
5°	10731	10721	10719	10741	10732	976
15°	5880	5809	5849	5830	5819	1575
25°	1382	1434	1558	1398	1354	662
35°	232	237	222	220	186	157
45°	61	76	76	76	62	43
55°	10	10	18	11	10	10
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°	11090.6	11090.6	11090.6	11090.6	11090.6
2.5°	11017.1	11009.5	11013.9	11019.3	11021.5
5°	10731.3	10720.9	10718.7	10741.1	10731.8
7.5°	10154.6	10139.9	10117.6	10168.2	10215.6
10°	9188.7	9172.3	9123.9	9147.8	9186.5
12.5°	7762.6	7709.8	7708.7	7784.9	7774.6
15°	5880.2	5809.4	5848.6	5829.6	5819.2
17.5°	3954.3	3927.0	3979.3	3963.5	3895.4
20°	2844.5	2851.6	2951.3	2901.2	2840.7
22.5°	2075.7	2101.3	2219.4	2090.4	2043.0
25°	1382.0	1434.2	1558.4	1397.8	1353.7
27.5°	850.0	873.9	999.7	839.1	815.1
30°	528.7	516.7	576.1	494.4	460.7
32.5°	346.9	331.6	350.7	314.7	287.5
35°	232.0	236.9	222.2	220.5	186.2
37.5°	144.8	166.6	147.0	156.8	119.8
40°	93.7	120.9	104.0	114.9	88.2
42.5°	76.8	93.1	85.5	90.9	78.4
45°	61.0	75.7	75.7	75.7	61.5
47.5°	33.8	50.6	64.8	51.7	35.9
50°	19.1	25.6	50.1	26.7	20.1
52.5°	13.1	14.7	34.3	15.2	13.6
55°	9.8	10.3	18.5	10.9	10.3
57.5°	7.6	8.2	9.8	8.2	7.6
60°	6.0	6.0	7.1	6.5	6.0
62.5°	4.4	4.4	4.9	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.6	2.2	2.2	2.2	2.2
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	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)