

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: P780997

Luminaire Tested: LER4D35BD010-EC4DR3020359030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780997
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-EC4DR3020359030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 3284.9 lumens
Efficiency: N/A
Efficacy: 106.7 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

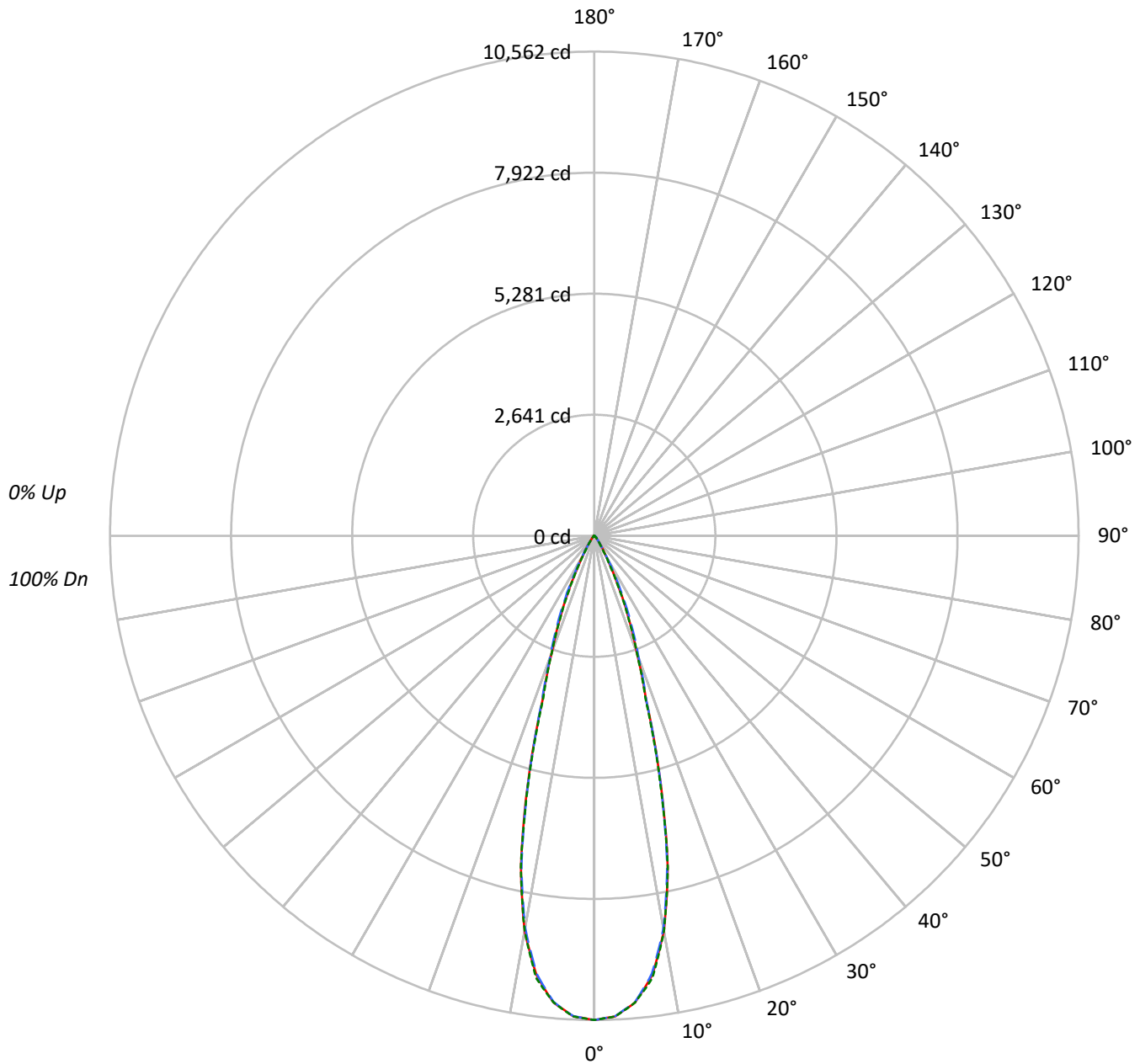


Downlight

TEST NUMBER: P780997

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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°	808490	808490	808490
5°	785285	784363	785323
10°	680172	675377	680009
15°	443780	441395	439176
20°	220672	228948	220379
25°	111161	125350	108881
30°	44502	48497	38774
35°	20641	19772	16577
40°	8913	9892	8393
45°	6289	7805	6343
50°	2167	5680	2286
55°	1241	2349	1321
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: 7805 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.8	28.3
10°-20°	1495.9	45.5
20°-30°	646.4	19.7
30°-40°	147.3	4.5
40°-50°	50.6	1.5
50°-60°	12.4	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°	3071.1	93.5
0°-40°	3218.4	98.0
0°-60°	3281.3	99.9
0°-90°	3284.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3284.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10562	10562	10562	10562	10562	
5°	10220	10210	10208	10230	10221	930
15°	5600	5533	5570	5552	5542	1500
25°	1316	1366	1484	1331	1289	630
35°	221	226	212	210	177	150
45°	58	72	72	72	59	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°	10562.5	10562.5	10562.5	10562.5	10562.5
2.5°	10492.5	10485.2	10489.4	10494.6	10496.7
5°	10220.3	10210.4	10208.3	10229.6	10220.8
7.5°	9671.1	9657.1	9635.8	9684.0	9729.2
10°	8751.1	8735.5	8689.4	8712.2	8749.0
12.5°	7392.9	7342.6	7341.6	7414.2	7404.3
15°	5600.2	5532.8	5570.1	5552.0	5542.1
17.5°	3766.0	3740.0	3789.8	3774.8	3709.9
20°	2709.1	2715.8	2810.7	2763.0	2705.5
22.5°	1976.8	2001.2	2113.7	1990.8	1945.7
25°	1316.2	1366.0	1484.2	1331.2	1289.2
27.5°	809.5	832.3	952.1	799.1	776.3
30°	503.5	492.1	548.7	470.9	438.7
32.5°	330.3	315.8	334.0	299.7	273.8
35°	220.9	225.6	211.6	210.0	177.4
37.5°	137.9	158.7	140.0	149.4	114.1
40°	89.2	115.1	99.0	109.4	84.0
42.5°	73.1	88.7	81.4	86.6	74.7
45°	58.1	72.1	72.1	72.1	58.6
47.5°	32.2	48.2	61.7	49.3	34.2
50°	18.2	24.4	47.7	25.4	19.2
52.5°	12.4	14.0	32.7	14.5	13.0
55°	9.3	9.9	17.6	10.4	9.9
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)