

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: P784405

Luminaire Tested: LER4DD35BD010-EC4DR3020359030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784405
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-EC4DR3020359030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 3120.7 lumens
Efficiency: N/A
Efficacy: 101.3 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

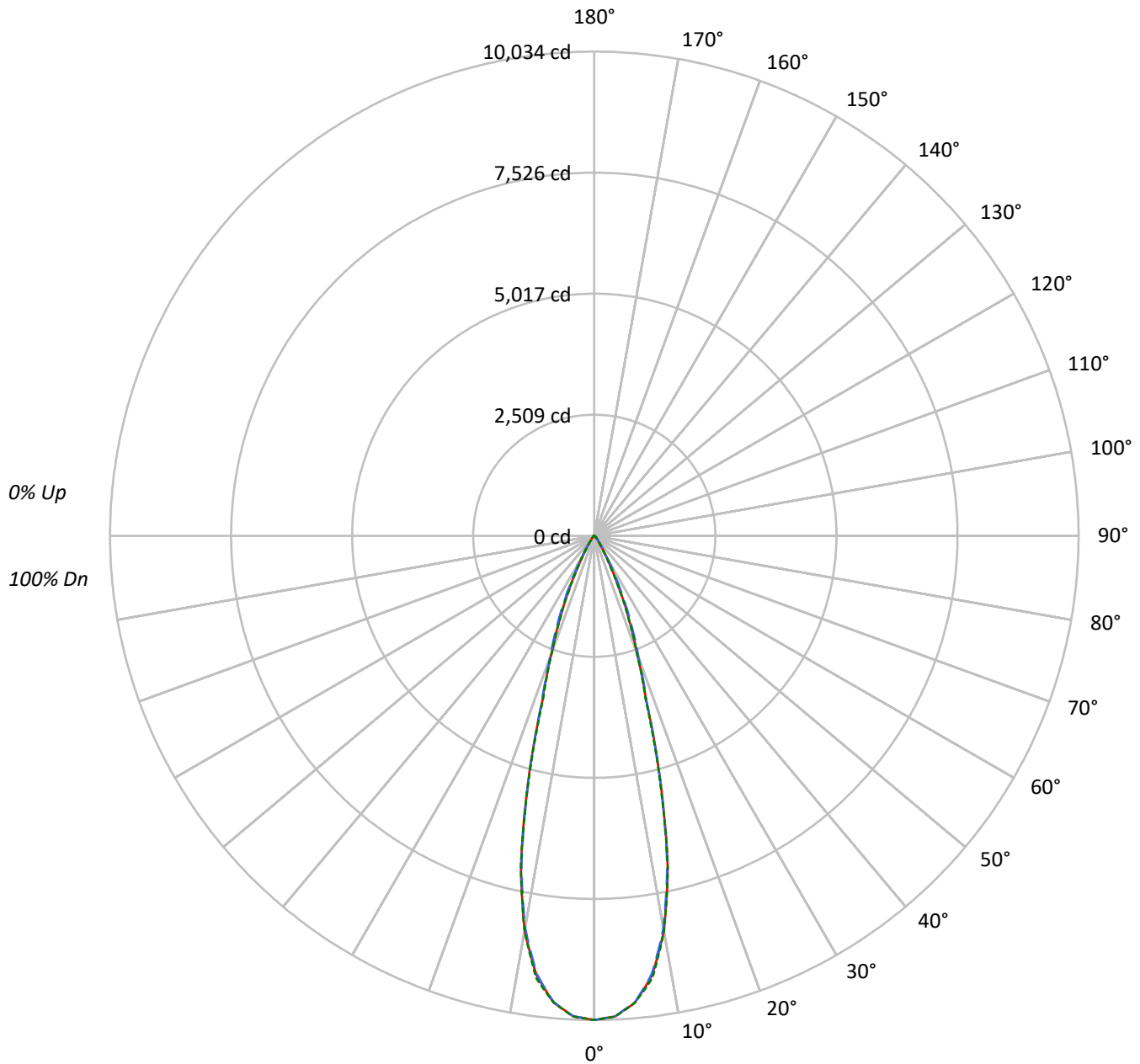


Downlight

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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°	768067	768067	768067
5°	746014	745146	746052
10°	646160	641606	646012
15°	421592	419325	417217
20°	209635	217503	209358
25°	105604	119083	103434
30°	42283	46066	36839
35°	19614	18782	15745
40°	8463	9403	7974
45°	5975	7415	6029
50°	2048	5394	2167
55°	1188	2242	1254
60°	827	980	827
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7415 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.4	28.3
10°-20°	1421.1	45.5
20°-30°	614.1	19.7
30°-40°	140.0	4.5
40°-50°	48.1	1.5
50°-60°	11.7	0.4
60°-70°	3.1	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°	2917.5	93.5
0°-40°	3057.5	98.0
0°-60°	3117.3	99.9
0°-90°	3120.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3120.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10034	10034	10034	10034	10034	
5°	9709	9700	9698	9718	9710	883
15°	5320	5256	5292	5274	5265	1425
25°	1250	1298	1410	1265	1225	599
35°	210	214	201	200	168	142
45°	55	68	68	68	56	39
55°	9	9	17	10	9	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°	10034.4	10034.4	10034.4	10034.4	10034.4
2.5°	9967.9	9961.0	9964.9	9969.9	9971.8
5°	9709.2	9699.9	9697.9	9718.1	9709.7
7.5°	9187.5	9174.2	9154.0	9199.8	9242.7
10°	8313.5	8298.8	8254.9	8276.6	8311.6
12.5°	7023.3	6975.5	6974.5	7043.5	7034.1
15°	5320.2	5256.1	5291.6	5274.4	5265.0
17.5°	3577.7	3553.0	3600.3	3586.0	3524.5
20°	2573.6	2580.0	2670.2	2624.9	2570.2
22.5°	1878.0	1901.2	2008.1	1891.3	1848.4
25°	1250.4	1297.7	1410.0	1264.6	1224.7
27.5°	769.0	790.7	904.5	759.2	737.5
30°	478.4	467.5	521.2	447.3	416.8
32.5°	313.8	300.0	317.3	284.8	260.1
35°	209.9	214.3	201.0	199.5	168.5
37.5°	131.0	150.8	133.0	141.9	108.4
40°	84.7	109.4	94.1	104.0	79.8
42.5°	69.5	84.2	77.3	82.3	70.9
45°	55.2	68.5	68.5	68.5	55.7
47.5°	30.5	45.8	58.6	46.8	32.5
50°	17.2	23.2	45.3	24.1	18.2
52.5°	11.8	13.3	31.0	13.8	12.3
55°	8.9	9.4	16.8	9.9	9.4
57.5°	6.9	7.4	8.9	7.4	6.9
60°	5.4	5.4	6.4	5.9	5.4
62.5°	3.9	3.9	4.4	3.9	3.9
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)