

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: P780990

Luminaire Tested: LER4D35BD010-EC4DR3020359024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780990
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-EC4DR3020359024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2955.6 lumens
Efficiency: N/A
Efficacy: 96.0 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 (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

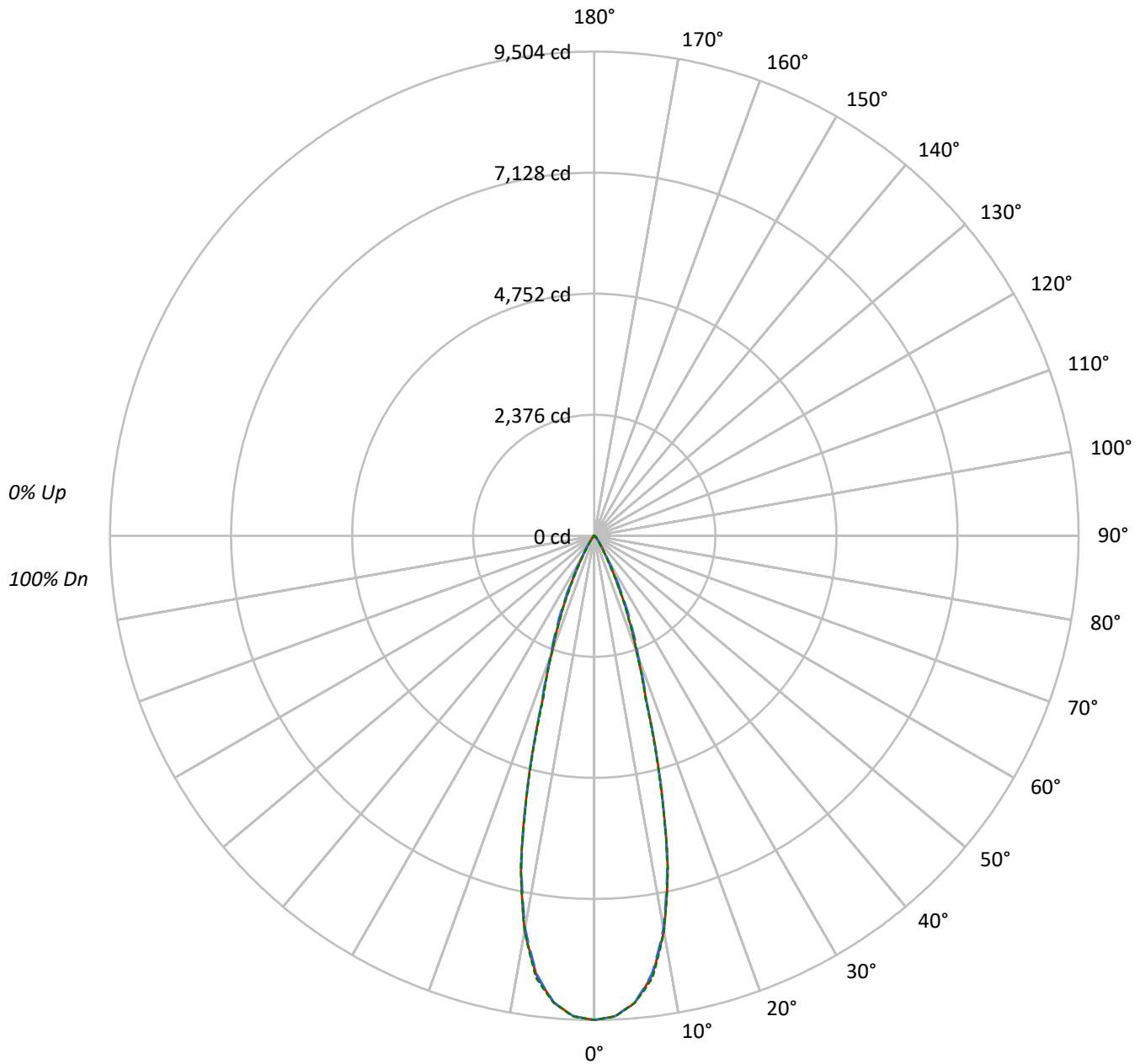


Downlight

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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	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°	727430	727430	727430
5°	706543	705721	706582
10°	611977	607656	611829
15°	399284	397137	395140
20°	198548	205994	198280
25°	100013	112783	97961
30°	40047	43627	34885
35°	18576	17791	14913
40°	8024	8903	7554
45°	5661	7025	5705
50°	1941	5109	2060
55°	1121	2122	1188
60°	781	934	781
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.7	28.3
10°-20°	1345.9	45.5
20°-30°	581.6	19.7
30°-40°	132.6	4.5
40°-50°	45.5	1.5
50°-60°	11.1	0.4
60°-70°	2.9	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°	2763.2	93.5
0°-40°	2895.7	98.0
0°-60°	2952.4	99.9
0°-90°	2955.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2955.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9504	9504	9504	9504	9504	
5°	9196	9187	9185	9204	9196	836
15°	5039	4978	5012	4995	4986	1349
25°	1184	1229	1335	1198	1160	567
35°	199	203	190	189	160	135
45°	52	65	65	65	53	37
55°	8	9	16	9	9	8
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°	9503.5	9503.5	9503.5	9503.5	9503.5
2.5°	9440.5	9433.9	9437.7	9442.3	9444.2
5°	9195.5	9186.6	9184.8	9203.9	9196.0
7.5°	8701.4	8688.8	8669.7	8713.1	8753.6
10°	7873.7	7859.7	7818.1	7838.7	7871.8
12.5°	6651.7	6606.4	6605.5	6670.8	6661.9
15°	5038.7	4978.0	5011.6	4995.3	4986.4
17.5°	3388.4	3365.0	3409.8	3396.3	3338.0
20°	2437.5	2443.5	2528.9	2486.0	2434.2
22.5°	1778.6	1800.6	1901.8	1791.2	1750.6
25°	1184.2	1229.0	1335.4	1197.7	1159.9
27.5°	728.3	748.9	856.7	719.0	698.5
30°	453.1	442.8	493.6	423.7	394.7
32.5°	297.2	284.2	300.5	269.7	246.4
35°	198.8	203.0	190.4	189.0	159.6
37.5°	124.1	142.8	126.0	134.4	102.6
40°	80.3	103.6	89.1	98.4	75.6
42.5°	65.8	79.8	73.3	77.9	67.2
45°	52.3	64.9	64.9	64.9	52.7
47.5°	28.9	43.4	55.5	44.3	30.8
50°	16.3	21.9	42.9	22.9	17.3
52.5°	11.2	12.6	29.4	13.1	11.7
55°	8.4	8.9	15.9	9.3	8.9
57.5°	6.5	7.0	8.4	7.0	6.5
60°	5.1	5.1	6.1	5.6	5.1
62.5°	3.7	3.7	4.2	3.7	3.7
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	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)