

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: NEO-RAY

Report Number: P1030832

Luminaire Tested: S123DIW-B340D1535UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030832
REPORT IS A COMBINATION OF REPORTS P991338 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B340D1535UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

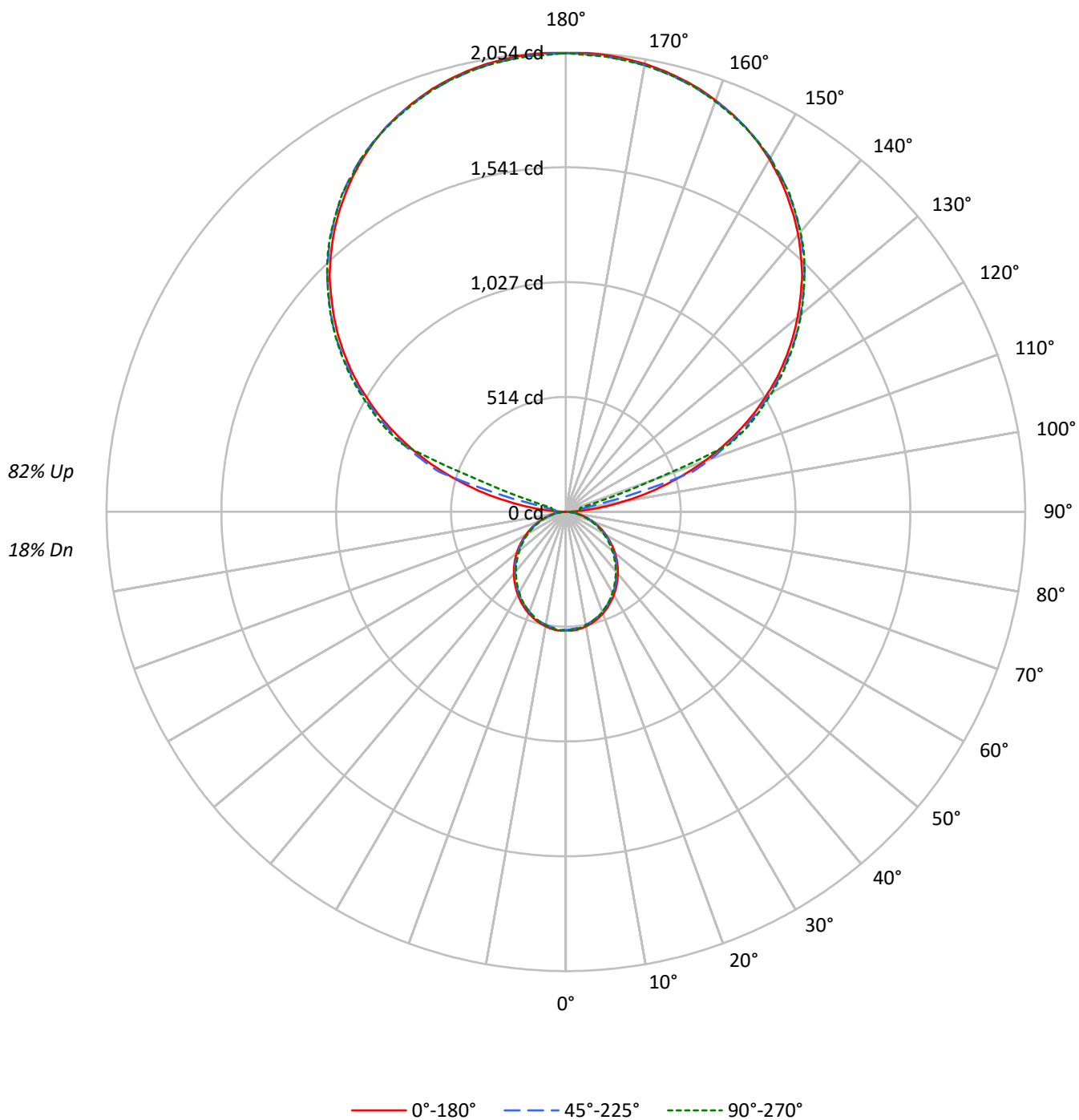
Lumens per Lamp: N/A
Luminaire Lumens: 7634.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
Input Voltage (V):
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

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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	100	100	100	100	88	88	88	88	66	66	66	45	45	45	27	27	27	18		
1	91	86	83	79	80	76	73	71	57	55	53	40	39	38	24	23	23	15		
2	82	75	70	65	72	67	62	58	50	47	44	35	33	31	21	20	19	13		
3	75	66	59	54	66	59	53	48	44	40	37	31	28	26	18	17	16	11		
4	69	58	51	45	60	52	45	41	39	35	31	27	25	22	16	15	14	9		
5	63	52	44	38	55	46	39	35	35	30	27	24	22	19	15	13	12	8		
6	58	46	39	33	51	41	35	30	31	27	23	22	19	17	13	12	10	7		
7	53	42	34	29	47	37	30	26	28	24	20	20	17	15	12	10	9	6		
8	49	38	30	25	43	33	27	23	25	21	18	18	15	13	11	9	8	6		
9	46	34	27	22	40	30	24	20	23	19	16	16	14	12	10	9	7	5		
10	42	31	24	20	37	28	22	18	21	17	14	15	12	10	9	8	7	5		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5704	5704	5704
5°	5717	5506	5499
10°	5667	5321	5265
15°	5588	5127	5012
20°	5497	4911	4761
25°	5380	4684	4492
30°	5253	4449	4210
35°	5119	4209	3928
40°	4978	3957	3653
45°	4824	3712	3364
50°	4667	3438	3074
55°	4466	3153	2780
60°	4259	2839	2468
65°	4064	2498	2143
70°	3784	2120	1762
75°	3378	1680	1368
80°	2921	1180	967
85°	2276	635	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	0.7
10°-20°	141.0	1.8
20°-30°	208.3	2.7
30°-40°	243.3	3.2
40°-50°	244.6	3.2
50°-60°	214.8	2.8
60°-70°	160.0	2.1
70°-80°	91.1	1.2
80°-90°	30.0	0.4
90°-100°	72.3	0.9
100°-110°	349.6	4.6
110°-120°	856.7	11.2
120°-130°	1087.5	14.2
130°-140°	1161.8	15.2
140°-150°	1086.4	14.2
150°-160°	876.3	11.5
160°-170°	565.5	7.4
170°-180°	194.9	2.6
0°-30°	399.3	5.2
0°-40°	642.6	8.4
0°-60°	1102.0	14.4
0°-90°	1383.1	18.1
90°-120°	1278.6	16.7
90°-150°	4614.2	60.4
90°-180°	6251.0	81.9
0°-180°	7634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	530	528	523	528	527	50
15°	505	503	497	501	498	142
25°	458	456	450	450	449	211
35°	396	394	388	385	383	248
45°	325	323	317	312	309	251
55°	246	246	240	235	233	221
65°	168	166	161	158	156	166
75°	89	87	86	83	82	95
85°	24	23	23	22	22	25
90°	2	17	37	43	46	7
95°	93	30	47	58	58	111
105°	454	471	334	64	67	481
115°	852	861	874	890	896	841
125°	1200	1213	1219	1222	1225	1073
135°	1494	1504	1510	1514	1510	1151
145°	1724	1735	1738	1741	1741	1080
155°	1900	1897	1898	1906	1897	875
165°	2003	1999	1997	2009	1999	566
175°	2050	2043	2044	2055	2043	195
180°	2050	2050	2050	2050	2050	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.9	529.9	529.9	529.9	529.9
2.5°	532.1	530.3	525.3	529.9	529.4
5°	530.3	528.0	523.0	527.6	526.7
7.5°	526.2	523.9	518.9	523.0	522.6
10°	520.8	518.5	512.6	516.7	515.7
12.5°	513.5	511.6	506.2	508.9	508.5
15°	504.8	503.0	497.1	500.7	498.0
17.5°	495.2	493.0	487.0	489.8	488.9
20°	484.3	481.6	475.6	477.5	476.1
22.5°	472.0	469.3	463.3	464.7	462.9
25°	458.3	455.6	449.7	450.1	448.8
27.5°	444.2	441.5	435.1	435.6	434.2
30°	428.7	426.4	420.1	420.1	416.9
32.5°	413.2	410.0	405.5	402.3	400.9
35°	396.4	393.6	387.7	385.0	382.7
37.5°	379.5	375.9	369.9	366.8	365.4
40°	361.7	359.0	352.6	349.0	347.2
42.5°	344.0	340.8	334.4	330.8	328.9
45°	324.8	323.0	317.1	311.6	309.4
47.5°	306.2	303.4	298.0	292.5	290.7
50°	287.0	284.8	278.8	273.8	271.1
52.5°	267.0	265.6	259.2	255.1	252.4
55°	246.5	246.0	240.1	235.1	232.8
57.5°	227.3	225.5	221.0	216.4	213.7
60°	206.4	205.9	200.5	196.4	194.1
62.5°	187.7	186.3	180.9	176.8	175.4
65°	168.1	165.8	161.3	157.6	156.3
67.5°	147.2	145.3	141.7	138.5	136.7
70°	128.5	125.7	123.0	119.8	117.5
72.5°	108.9	107.1	103.9	101.1	100.2
75°	88.8	87.0	85.7	83.4	82.0
77.5°	71.1	70.2	68.3	66.5	66.5
80°	53.8	52.4	51.5	51.0	51.0
82.5°	36.9	36.9	36.9	36.0	35.5
85°	23.7	22.8	22.8	21.9	21.9
87.5°	11.8	10.5	10.0	9.6	9.6
90°	1.5	16.8	36.6	42.7	45.7
92.5°	35.0	25.9	39.6	50.3	51.8
95°	92.9	30.5	47.2	57.9	57.9
97.5°	169.1	126.4	48.7	60.9	62.5
100°	257.4	287.9	50.3	62.5	64.0
102.5°	358.0	377.8	112.7	62.5	65.5
105°	454.0	470.7	333.6	64.0	67.0
107.5°	556.0	569.7	592.6	358.0	158.4
110°	658.1	670.3	687.0	636.8	418.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	755.6	766.2	783.0	796.7	793.7
115°	851.6	860.7	874.4	889.6	895.7
117.5°	946.0	956.7	964.3	976.5	978.0
120°	1032.8	1046.5	1051.1	1063.3	1063.3
122.5°	1121.2	1131.8	1137.9	1145.6	1147.1
125°	1200.4	1212.6	1218.7	1221.7	1224.8
127.5°	1279.6	1291.8	1299.4	1304.0	1300.9
130°	1352.7	1364.9	1371.0	1377.1	1374.1
132.5°	1422.8	1435.0	1439.6	1445.7	1441.1
135°	1494.4	1503.5	1509.6	1514.2	1509.6
137.5°	1555.3	1567.5	1570.6	1578.2	1575.1
140°	1616.3	1625.4	1630.0	1636.1	1633.0
142.5°	1672.6	1681.8	1686.3	1690.9	1686.3
145°	1724.4	1735.1	1738.1	1741.2	1741.2
147.5°	1774.7	1782.3	1785.4	1788.4	1780.8
150°	1820.4	1825.0	1828.0	1831.1	1826.5
152.5°	1861.5	1863.1	1864.6	1870.7	1863.1
155°	1899.6	1896.6	1898.1	1905.7	1896.6
157.5°	1930.1	1930.1	1928.6	1937.7	1925.5
160°	1957.5	1956.0	1954.5	1963.6	1952.9
162.5°	1983.4	1978.8	1977.3	1988.0	1978.8
165°	2003.2	1998.6	1997.1	2009.3	1998.6
167.5°	2020.0	2013.9	2013.9	2026.1	2013.9
170°	2033.7	2027.6	2027.6	2039.8	2027.6
172.5°	2042.8	2035.2	2036.7	2048.9	2035.2
175°	2050.4	2042.8	2044.3	2055.0	2042.8
177.5°	2053.5	2045.9	2047.4	2059.6	2044.3
180°	2050.4	2050.4	2050.4	2050.4	2050.4

(END OF REPORT)