

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: P1029360

Luminaire Tested: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029360
REPORT IS A COMBINATION OF REPORTS P985611 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

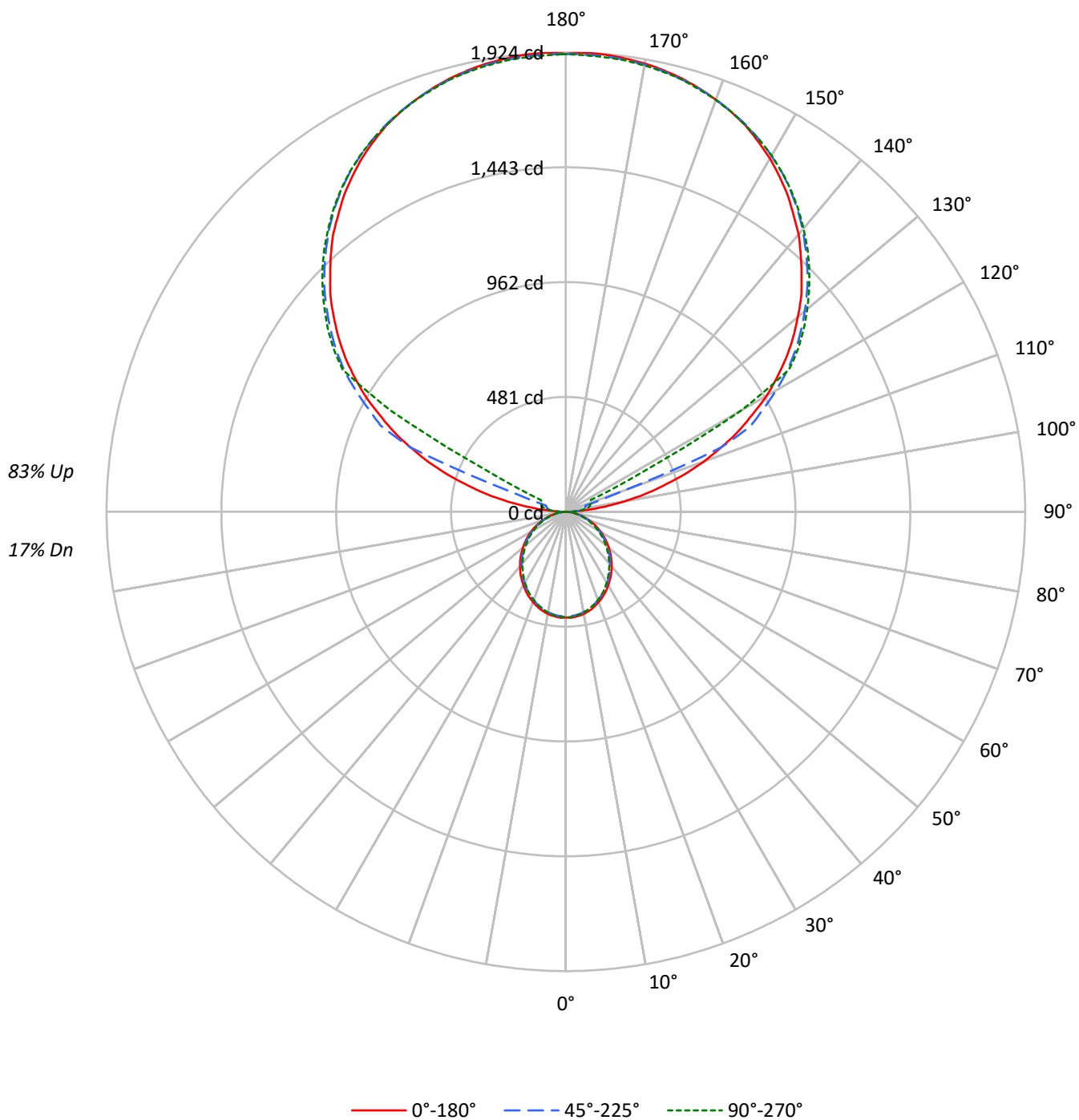
Lumens per Lamp: N/A
Luminaire Lumens: 6750.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1029360

CATALOG NUMBER: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_5000K

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	99	99	99	99	87	87	87	87	65	65	65	44	44	44	26	26	26	17		
1	90	86	83	79	79	76	73	70	57	55	53	39	38	37	22	22	21	14		
2	82	75	69	65	72	66	62	57	50	46	44	34	32	31	20	19	18	12		
3	75	66	59	54	66	58	52	48	44	40	37	30	28	26	18	16	15	10		
4	68	58	51	45	60	51	45	40	39	34	31	27	24	22	16	14	13	9		
5	63	52	44	38	55	46	39	34	34	30	27	24	21	19	14	13	11	7		
6	57	46	38	33	50	41	34	30	31	26	23	21	19	16	13	11	10	7		
7	53	41	34	29	46	37	30	26	28	23	20	19	17	14	12	10	9	6		
8	49	37	30	25	43	33	27	23	25	21	18	18	15	13	11	9	8	5		
9	45	34	27	22	40	30	24	20	23	19	16	16	13	11	10	8	7	5		
10	42	31	24	20	37	28	22	18	21	17	14	15	12	10	9	7	6	4		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7000	7000	7000
5°	7011	6672	6625
10°	6953	6368	6242
15°	6852	6062	5838
20°	6714	5728	5457
25°	6578	5380	5075
30°	6405	5054	4676
35°	6243	4708	4283
40°	6041	4368	3911
45°	5840	4030	3548
50°	5622	3686	3170
55°	5393	3318	2812
60°	5134	2922	2440
65°	4852	2517	2049
70°	4491	2074	1654
75°	3994	1600	1279
80°	3393	1086	822
85°	2458	506	350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5840 cd/sqm

TEST NUMBER: P1029360

CATALOG NUMBER: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	0.6
10°-20°	117.1	1.7
20°-30°	172.1	2.5
30°-40°	199.9	3.0
40°-50°	199.6	3.0
50°-60°	174.1	2.6
60°-70°	128.7	1.9
70°-80°	72.8	1.1
80°-90°	22.6	0.3
90°-100°	63.3	0.9
100°-110°	235.7	3.5
110°-120°	625.1	9.3
120°-130°	1036.8	15.4
130°-140°	1101.4	16.3
140°-150°	1023.6	15.2
150°-160°	822.9	12.2
160°-170°	530.3	7.9
170°-180°	182.5	2.7
0°-30°	330.8	4.9
0°-40°	530.7	7.9
0°-60°	904.3	13.4
0°-90°	1128.4	16.7
90°-120°	924.1	13.7
90°-150°	4085.9	60.5
90°-180°	5622.0	83.3
0°-180°	6750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	442	440	436	439	438	42
15°	421	418	413	415	412	119
25°	381	378	370	371	370	175
35°	329	324	318	315	313	205
45°	267	264	258	253	252	206
55°	202	200	195	190	188	181
65°	136	134	130	126	124	135
75°	71	71	68	66	67	76
85°	17	17	17	15	15	19
90°	1	17	28	35	38	6
95°	90	44	54	61	60	107
105°	422	463	85	100	106	451
115°	798	821	856	214	114	785
125°	1128	1146	1172	1182	1186	1006
135°	1396	1418	1430	1444	1442	1078
145°	1619	1618	1641	1651	1644	1013
155°	1783	1770	1787	1796	1784	822
165°	1879	1870	1875	1884	1875	531
175°	1922	1912	1915	1924	1911	183
180°	1918	1918	1918	1918	1918	

TEST NUMBER: P1029360

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	442.2	442.2	442.2	442.2	442.2
2.5°	444.7	442.6	437.9	442.2	441.3
5°	442.2	440.5	435.8	439.2	438.4
7.5°	439.2	436.7	432.0	435.4	434.5
10°	434.5	431.6	426.5	429.9	428.6
12.5°	428.2	425.6	420.5	422.6	421.8
15°	420.9	418.4	412.9	414.6	412.4
17.5°	412.0	409.5	403.9	406.0	403.9
20°	402.2	399.7	393.7	395.0	393.3
22.5°	392.4	388.6	383.1	383.1	382.2
25°	381.0	377.6	370.3	371.2	370.3
27.5°	368.2	365.2	359.7	358.4	356.3
30°	355.5	352.1	345.7	344.4	342.7
32.5°	341.8	339.3	332.5	329.9	328.2
35°	328.7	324.4	317.6	315.1	312.9
37.5°	313.8	310.0	303.2	300.2	298.1
40°	298.5	295.1	288.3	284.4	282.7
42.5°	283.6	280.2	273.4	269.1	266.6
45°	267.4	264.5	258.1	253.4	251.7
47.5°	251.7	248.7	241.9	237.3	234.7
50°	235.1	233.0	227.0	221.1	219.0
52.5°	219.0	216.0	210.5	205.8	202.8
55°	202.4	199.8	194.7	189.6	187.5
57.5°	185.8	183.7	178.2	173.0	171.3
60°	169.2	167.5	161.6	156.9	155.6
62.5°	153.1	150.1	145.8	141.6	139.9
65°	136.5	133.9	129.7	125.9	123.7
67.5°	119.5	117.4	113.5	110.5	108.8
70°	103.7	102.0	98.2	95.2	93.5
72.5°	87.6	85.9	83.8	80.8	79.5
75°	71.4	70.6	68.5	65.9	66.8
77.5°	57.0	55.3	54.4	53.1	51.9
80°	42.5	42.1	41.2	40.0	39.1
82.5°	28.9	28.9	28.5	26.8	26.8
85°	17.4	17.0	16.6	15.3	14.9
87.5°	7.7	6.8	6.0	4.7	4.3
90°	1.4	16.7	27.8	34.7	37.5
92.5°	34.7	29.1	33.3	36.1	37.5
95°	90.2	44.4	54.1	61.1	59.7
97.5°	162.3	48.6	70.8	74.9	76.3
100°	245.6	55.5	79.1	90.2	93.0
102.5°	337.2	334.4	81.9	97.1	101.3
105°	421.8	463.4	84.6	99.9	105.5
107.5°	520.3	555.0	87.4	102.7	108.2
110°	614.7	643.8	242.8	104.1	109.6

TEST NUMBER: P1029360

CATALOG NUMBER: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	703.5	728.5	704.9	106.8	111.0
115°	797.8	821.4	856.1	213.7	113.8
117.5°	879.7	907.4	931.0	732.6	369.1
120°	971.3	992.1	1017.1	1033.7	846.4
122.5°	1049.0	1071.2	1098.9	1107.2	1108.6
125°	1128.1	1146.1	1172.5	1182.2	1186.3
127.5°	1200.2	1219.6	1240.5	1254.3	1255.7
130°	1268.2	1290.4	1305.7	1320.9	1319.5
132.5°	1337.6	1355.6	1370.9	1383.4	1382.0
135°	1395.9	1418.1	1430.5	1444.4	1441.6
137.5°	1456.9	1473.6	1487.4	1501.3	1497.1
140°	1516.6	1527.7	1542.9	1555.4	1548.5
142.5°	1566.5	1576.2	1594.3	1605.4	1598.4
145°	1619.2	1617.9	1641.4	1651.2	1644.2
147.5°	1665.0	1660.9	1684.5	1691.4	1685.8
150°	1709.4	1699.7	1721.9	1730.2	1723.3
152.5°	1746.9	1735.8	1756.6	1764.9	1755.2
155°	1783.0	1770.5	1787.1	1795.5	1784.4
157.5°	1812.1	1801.0	1813.5	1823.2	1812.1
160°	1837.1	1828.8	1837.1	1845.4	1835.7
162.5°	1859.3	1851.0	1857.9	1867.6	1855.1
165°	1878.7	1870.4	1874.6	1884.3	1874.6
167.5°	1894.0	1885.7	1889.8	1899.5	1887.0
170°	1906.5	1898.1	1900.9	1910.6	1898.1
172.5°	1914.8	1906.5	1909.2	1919.0	1906.5
175°	1921.7	1912.0	1914.8	1924.5	1910.6
177.5°	1924.5	1914.8	1916.2	1925.9	1913.4
180°	1917.6	1917.6	1917.6	1917.6	1917.6

(END OF REPORT)