

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: P1029356

Luminaire Tested: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029356
REPORT IS A COMBINATION OF REPORTS P985607 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_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

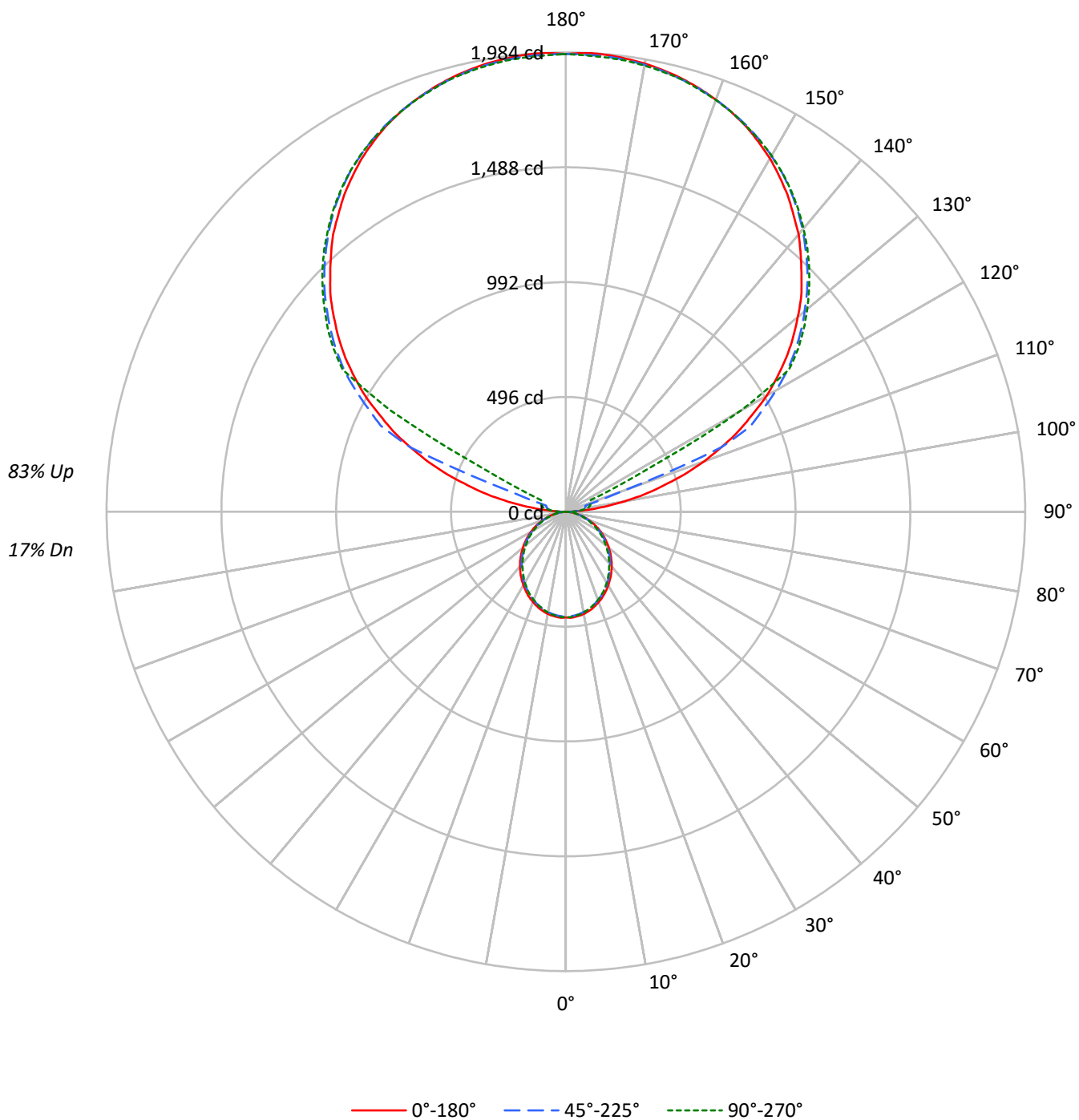
Lumens per Lamp: N/A
Luminaire Lumens: 6960.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1029356

CATALOG NUMBER: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_2700K

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
RCR																	
0	99	99	99	99	87	87	87	87	65	65	65	44	44	44	26	26	26
1	90	86	83	79	79	76	73	70	57	55	53	39	38	37	22	22	21
2	82	75	69	65	72	66	62	57	50	46	44	34	32	31	20	19	18
3	75	66	59	54	66	58	52	48	44	40	37	30	28	26	18	16	15
4	68	58	51	45	60	51	45	40	39	34	31	27	24	22	16	14	13
5	63	52	44	38	55	46	39	34	34	30	27	24	21	19	14	13	11
6	57	46	38	33	50	41	34	30	31	26	23	21	19	16	13	11	10
7	53	41	34	29	46	37	30	26	28	23	20	19	17	14	12	10	9
8	49	37	30	25	43	33	27	23	25	21	18	18	15	13	11	9	8
9	45	34	27	22	40	30	24	20	23	19	16	16	13	11	10	8	7
10	42	31	24	20	37	28	22	18	21	17	14	15	12	10	9	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7217	7217	7217
5°	7228	6880	6831
10°	7171	6566	6435
15°	7065	6250	6021
20°	6923	5907	5626
25°	6781	5548	5234
30°	6604	5210	4822
35°	6436	4855	4417
40°	6230	4503	4033
45°	6023	4155	3658
50°	5797	3801	3269
55°	5561	3422	2899
60°	5295	3012	2517
65°	5002	2595	2113
70°	4634	2139	1707
75°	4123	1649	1317
80°	3497	1120	847
85°	2543	521	360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6023 cd/sqm

TEST NUMBER: P1029356

CATALOG NUMBER: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	0.6
10°-20°	120.7	1.7
20°-30°	177.4	2.5
30°-40°	206.1	3.0
40°-50°	205.8	3.0
50°-60°	179.5	2.6
60°-70°	132.7	1.9
70°-80°	75.1	1.1
80°-90°	23.3	0.3
90°-100°	65.2	0.9
100°-110°	243.0	3.5
110°-120°	644.6	9.3
120°-130°	1069.1	15.4
130°-140°	1135.6	16.3
140°-150°	1055.5	15.2
150°-160°	848.5	12.2
160°-170°	546.8	7.9
170°-180°	188.2	2.7
0°-30°	341.1	4.9
0°-40°	547.2	7.9
0°-60°	932.5	13.4
0°-90°	1163.5	16.7
90°-120°	952.9	13.7
90°-150°	4213.0	60.5
90°-180°	5797.0	83.3
0°-180°	6960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	454	449	453	452	43
15°	434	431	426	427	425	122
25°	393	389	382	383	382	181
35°	339	334	328	325	323	212
45°	276	273	266	261	260	213
55°	209	206	201	196	193	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	1	17	29	36	39	6
95°	93	46	56	63	62	110
105°	435	478	87	103	109	465
115°	823	847	883	220	117	810
125°	1163	1182	1209	1219	1223	1037
135°	1439	1462	1475	1489	1486	1112
145°	1670	1668	1692	1702	1695	1044
155°	1838	1826	1843	1851	1840	847
165°	1937	1929	1933	1943	1933	547
175°	1982	1972	1974	1984	1970	189
180°	1977	1977	1977	1977	1977	

TEST NUMBER: P1029356

CATALOG NUMBER: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.9	455.9	455.9	455.9	455.9
2.5°	458.6	456.4	451.6	455.9	455.1
5°	455.9	454.2	449.4	452.9	452.0
7.5°	452.9	450.2	445.4	448.9	448.1
10°	448.1	445.0	439.7	443.2	441.9
12.5°	441.5	438.8	433.6	435.8	434.9
15°	434.0	431.4	425.7	427.4	425.3
17.5°	424.8	422.2	416.5	418.7	416.5
20°	414.7	412.1	406.0	407.3	405.5
22.5°	404.7	400.7	395.0	395.0	394.1
25°	392.8	389.3	381.9	382.7	381.9
27.5°	379.7	376.6	370.9	369.6	367.4
30°	366.5	363.0	356.4	355.1	353.4
32.5°	352.5	349.9	342.8	340.2	338.5
35°	338.9	334.5	327.5	324.9	322.7
37.5°	323.5	319.6	312.6	309.5	307.3
40°	307.8	304.3	297.2	293.3	291.5
42.5°	292.4	288.9	281.9	277.5	274.9
45°	275.8	272.7	266.1	261.3	259.5
47.5°	259.5	256.5	249.5	244.6	242.0
50°	242.4	240.2	234.1	228.0	225.8
52.5°	225.8	222.7	217.0	212.2	209.1
55°	208.7	206.1	200.8	195.5	193.3
57.5°	191.6	189.4	183.7	178.4	176.7
60°	174.5	172.7	166.6	161.8	160.5
62.5°	157.8	154.8	150.4	146.0	144.2
65°	140.7	138.1	133.7	129.8	127.6
67.5°	123.2	121.0	117.1	114.0	112.2
70°	107.0	105.2	101.3	98.2	96.5
72.5°	90.3	88.6	86.4	83.3	82.0
75°	73.7	72.8	70.6	68.0	68.8
77.5°	58.7	57.0	56.1	54.8	53.5
80°	43.8	43.4	42.5	41.2	40.3
82.5°	29.8	29.8	29.4	27.6	27.6
85°	18.0	17.5	17.1	15.8	15.3
87.5°	7.9	7.0	6.1	4.8	4.4
90°	1.4	17.2	28.6	35.8	38.6
92.5°	35.8	30.0	34.3	37.2	38.6
95°	93.0	45.8	55.8	63.0	61.5
97.5°	167.4	50.1	73.0	77.3	78.7
100°	253.2	57.2	81.5	93.0	95.9
102.5°	347.7	344.8	84.4	100.1	104.4
105°	434.9	477.9	87.3	103.0	108.7
107.5°	536.5	572.3	90.1	105.9	111.6
110°	633.8	663.8	250.4	107.3	113.0

TEST NUMBER: P1029356

CATALOG NUMBER: S122DIW-B290D1440UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	725.4	751.1	726.8	110.2	114.5
115°	822.7	847.0	882.7	220.3	117.3
117.5°	907.1	935.7	960.0	755.4	380.6
120°	1001.5	1022.9	1048.7	1065.9	872.7
122.5°	1081.6	1104.5	1133.1	1141.7	1143.1
125°	1163.2	1181.8	1208.9	1219.0	1223.2
127.5°	1237.6	1257.6	1279.0	1293.3	1294.8
130°	1307.7	1330.5	1346.3	1362.0	1360.6
132.5°	1379.2	1397.8	1413.5	1426.4	1425.0
135°	1439.3	1462.2	1475.0	1489.4	1486.5
137.5°	1502.2	1519.4	1533.7	1548.0	1543.7
140°	1563.8	1575.2	1590.9	1603.8	1596.7
142.5°	1615.3	1625.3	1643.9	1655.3	1648.2
145°	1669.6	1668.2	1692.5	1702.5	1695.4
147.5°	1716.8	1712.5	1736.9	1744.0	1738.3
150°	1762.6	1752.6	1775.5	1784.1	1776.9
152.5°	1801.2	1789.8	1811.3	1819.8	1809.8
155°	1838.4	1825.6	1842.7	1851.3	1839.9
157.5°	1868.5	1857.0	1869.9	1879.9	1868.5
160°	1894.2	1885.7	1894.2	1902.8	1892.8
162.5°	1917.1	1908.5	1915.7	1925.7	1912.8
165°	1937.2	1928.6	1932.9	1942.9	1932.9
167.5°	1952.9	1944.3	1948.6	1958.6	1945.7
170°	1965.8	1957.2	1960.1	1970.1	1957.2
172.5°	1974.4	1965.8	1968.6	1978.7	1965.8
175°	1981.5	1971.5	1974.4	1984.4	1970.1
177.5°	1984.4	1974.4	1975.8	1985.8	1972.9
180°	1977.2	1977.2	1977.2	1977.2	1977.2

(END OF REPORT)