

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: P1029209

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029209
REPORT IS A COMBINATION OF REPORTS P985157 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D1440UB2750-4F0-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

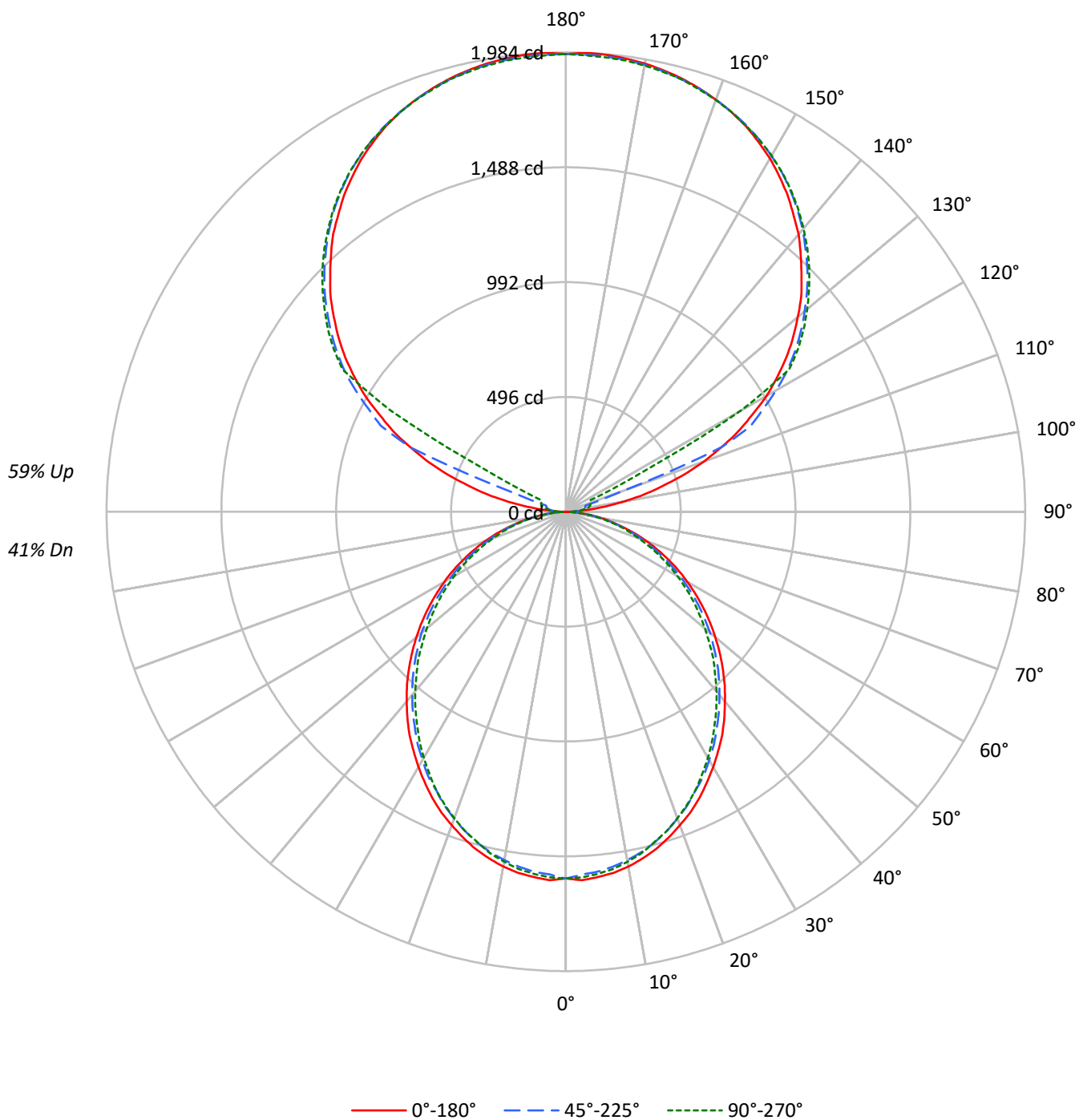
Lumens per Lamp: N/A
Luminaire Lumens: 9829.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 113.5
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41		
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	35		
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	36	34	29		
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	25		
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21		
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22	18		
6	61	50	42	36	56	45	38	33	38	33	29	31	27	24	24	21	19	16		
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14		
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15	13		
9	49	37	30	25	45	34	27	23	29	23	20	23	20	17	19	16	14	12		
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25067	25067	25067
5°	25108	23894	23724
10°	24904	22805	22353
15°	24540	21709	20909
20°	24047	20514	19542
25°	23556	19269	18178
30°	22937	18098	16746
35°	22355	16861	15339
40°	21634	15642	14009
45°	20918	14433	12705
50°	20138	13201	11353
55°	19313	11886	10071
60°	18389	10461	8739
65°	17377	9013	7339
70°	16089	7428	5926
75°	14310	5728	4576
80°	12159	3892	2945
85°	8814	1811	1253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	1.5
10°-20°	419.4	4.3
20°-30°	616.3	6.3
30°-40°	715.8	7.3
40°-50°	714.9	7.3
50°-60°	623.3	6.3
60°-70°	460.8	4.7
70°-80°	260.7	2.7
80°-90°	72.3	0.7
90°-100°	65.2	0.7
100°-110°	243.0	2.5
110°-120°	644.6	6.6
120°-130°	1069.1	10.9
130°-140°	1135.6	11.6
140°-150°	1055.5	10.7
150°-160°	848.5	8.6
160°-170°	546.8	5.6
170°-180°	188.2	1.9
0°-30°	1184.7	12.1
0°-40°	1900.5	19.3
0°-60°	3238.7	33.0
0°-90°	4032.5	41.0
90°-120°	952.9	9.7
90°-150°	4213.0	42.9
90°-180°	5797.0	59.0
0°-180°	9829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1584	1578	1561	1573	1570	150
15°	1508	1498	1479	1485	1477	425
25°	1364	1352	1326	1329	1326	628
35°	1177	1162	1138	1128	1121	735
45°	958	947	924	908	901	739
55°	725	716	697	679	672	648
65°	489	480	464	451	443	483
75°	256	253	245	236	239	273
85°	62	61	59	55	53	70
90°	1	17	29	36	39	9
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.6	1583.6	1583.6	1583.6	1583.6
2.5°	1592.8	1585.1	1568.4	1583.6	1580.6
5°	1583.6	1577.5	1560.8	1573.0	1569.9
7.5°	1573.0	1563.8	1547.1	1559.3	1556.2
10°	1556.2	1545.6	1527.3	1539.5	1534.9
12.5°	1533.4	1524.2	1506.0	1513.6	1510.5
15°	1507.5	1498.4	1478.6	1484.7	1477.0
17.5°	1475.5	1466.4	1446.6	1454.2	1446.6
20°	1440.5	1431.4	1410.0	1414.6	1408.5
22.5°	1405.5	1391.8	1372.0	1372.0	1368.9
25°	1364.4	1352.2	1326.3	1329.3	1326.3
27.5°	1318.7	1308.0	1288.2	1283.7	1276.0
30°	1273.0	1260.8	1238.0	1233.4	1227.3
32.5°	1224.3	1215.1	1190.8	1181.6	1175.5
35°	1177.1	1161.8	1137.5	1128.3	1120.7
37.5°	1123.8	1110.1	1085.7	1075.0	1067.4
40°	1068.9	1056.8	1032.4	1018.7	1012.6
42.5°	1015.7	1003.5	979.1	963.9	954.7
45°	957.8	947.1	924.3	907.5	901.4
47.5°	901.4	890.8	866.4	849.7	840.5
50°	842.1	834.4	813.1	791.8	784.2
52.5°	784.2	773.5	753.7	737.0	726.3
55°	724.8	715.7	697.4	679.1	671.5
57.5°	665.4	657.8	638.0	619.7	613.7
60°	606.0	600.0	578.6	561.9	557.3
62.5°	548.2	537.5	522.3	507.1	501.0
65°	488.8	479.7	464.4	450.7	443.1
67.5°	427.9	420.3	406.6	395.9	389.8
70°	371.5	365.5	351.7	341.1	335.0
72.5°	313.7	307.6	300.0	289.3	284.7
75°	255.8	252.8	245.2	236.0	239.1
77.5°	204.0	198.0	194.9	190.3	185.8
80°	152.3	150.7	147.7	143.1	140.1
82.5°	103.5	103.5	102.0	95.9	95.9
85°	62.4	60.9	59.4	54.8	53.3
87.5°	27.4	24.4	21.3	16.7	15.2
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

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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)