

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: P1029204

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029204
REPORT IS A COMBINATION OF REPORTS P985147 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-F1_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

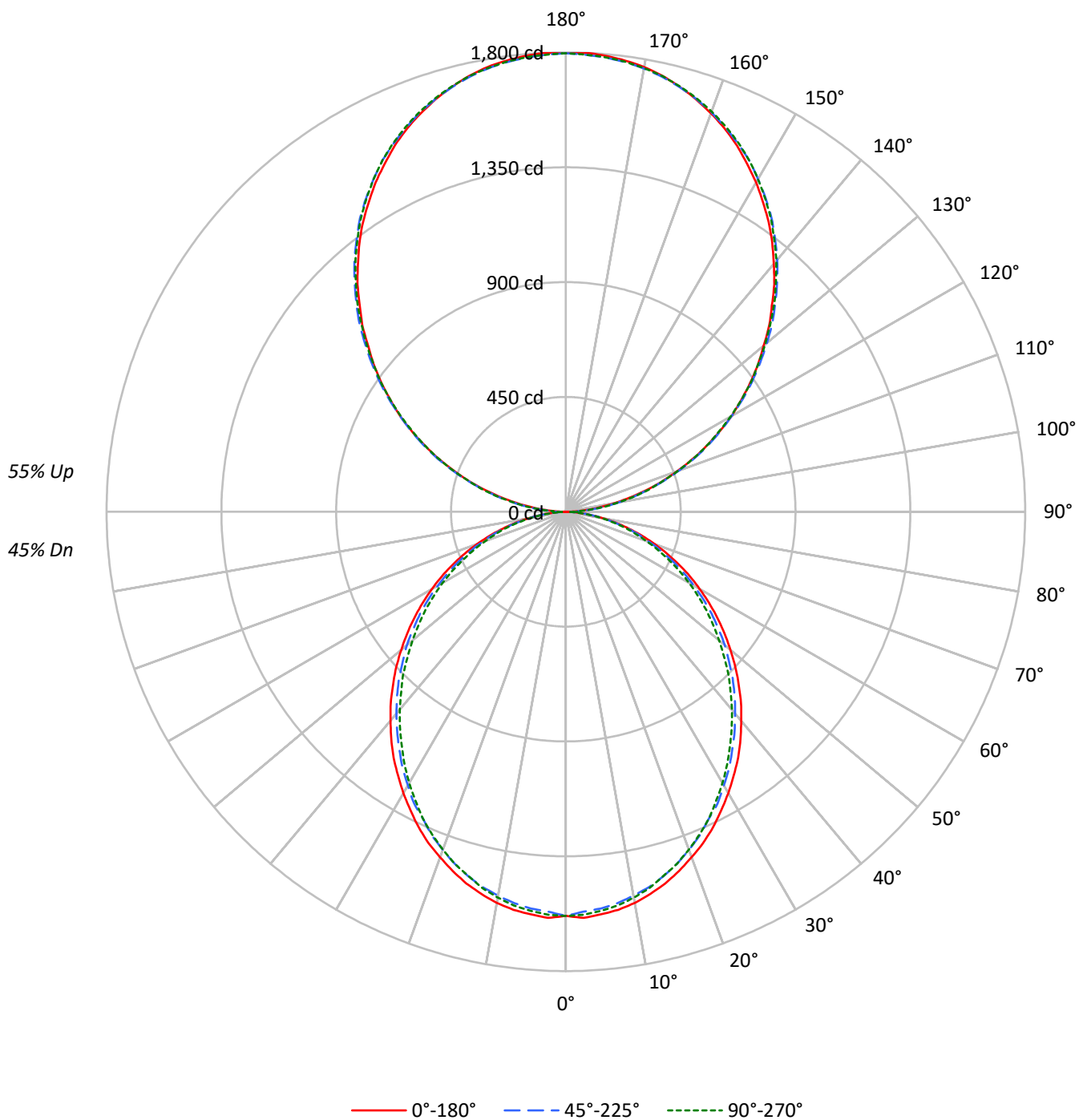
Lumens per Lamp: N/A
Luminaire Lumens: 9058.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																				
0	106	106	106	106	97	97	97	97		80	80	80		65	65	65		51	51	51
1	97	92	88	85	88	85	81	78		70	68	66		57	56	54		45	44	43
2	88	81	74	69	80	74	69	64		62	58	55		50	48	45		40	38	36
3	80	71	64	58	73	65	59	54		54	50	46		44	41	38		35	33	31
4	73	63	55	49	67	58	51	46		48	43	39		40	36	33		31	29	27
5	67	56	48	42	61	51	44	39		43	38	34		36	32	28		28	25	23
6	62	50	42	36	57	46	39	34		39	33	29		32	28	25		26	23	20
7	57	45	37	32	52	42	35	30		35	30	26		29	25	22		23	20	18
8	53	41	33	28	49	38	31	26		32	27	23		27	23	20		22	19	16
9	49	37	30	25	45	35	28	23		29	24	20		25	20	18		20	17	15
10	46	34	27	22	42	32	25	21		27	22	18		23	19	16		18	15	13

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	1.6
10°-20°	419.4	4.6
20°-30°	616.3	6.8
30°-40°	715.8	7.9
40°-50°	714.9	7.9
50°-60°	623.3	6.9
60°-70°	460.8	5.1
70°-80°	260.7	2.9
80°-90°	73.9	0.8
90°-100°	111.1	1.2
100°-110°	353.4	3.9
110°-120°	604.7	6.7
120°-130°	795.2	8.8
130°-140°	892.6	9.9
140°-150°	875.4	9.7
150°-160°	734.3	8.1
160°-170°	487.0	5.4
170°-180°	170.2	1.9
0°-30°	1184.7	13.1
0°-40°	1900.5	21.0
0°-60°	3238.7	35.8
0°-90°	4034.1	44.5
90°-120°	1069.2	11.8
90°-150°	3632.4	40.1
90°-180°	5024.0	55.5
0°-180°	9058.0	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°	2	20	53	50	52	9
95°	79	94	97	97	94	88
105°	326	331	334	337	337	344
115°	607	616	613	611	607	600
125°	882	896	892	887	886	789
135°	1142	1158	1162	1160	1156	882
145°	1386	1397	1406	1407	1401	866
155°	1585	1589	1594	1601	1597	729
165°	1724	1723	1723	1733	1726	486
175°	1794	1789	1786	1797	1788	170
180°	1797	1797	1797	1797	1797	

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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°	1.5	19.7	53.1	50.0	51.6
92.5°	33.4	45.5	47.0	48.5	48.5
95°	78.9	94.0	97.0	97.0	94.0
97.5°	131.9	145.6	151.6	151.6	151.6
100°	192.6	204.7	209.3	209.3	207.7
102.5°	256.3	265.4	271.4	273.0	271.4
105°	326.0	330.6	333.6	336.6	336.6
107.5°	395.8	401.8	401.8	403.4	395.8
110°	462.5	471.6	471.6	471.6	467.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	535.3	544.4	542.9	538.3	535.3
115°	606.6	615.7	612.6	611.1	606.6
117.5°	677.8	690.0	682.4	677.8	673.3
120°	749.1	761.2	749.1	749.1	744.6
122.5°	814.3	829.5	821.9	817.3	814.3
125°	882.5	896.2	891.6	887.1	885.6
127.5°	949.3	965.9	959.9	953.8	949.3
130°	1011.4	1031.2	1028.1	1025.1	1019.0
132.5°	1081.2	1096.4	1097.9	1090.3	1085.7
135°	1141.8	1158.5	1161.6	1160.0	1155.5
137.5°	1208.6	1222.2	1225.3	1223.7	1217.7
140°	1267.7	1281.4	1288.9	1288.9	1282.9
142.5°	1328.4	1342.0	1346.6	1348.1	1342.0
145°	1386.0	1396.6	1405.7	1407.2	1401.2
147.5°	1437.5	1451.2	1457.3	1460.3	1454.2
150°	1490.6	1499.7	1505.8	1510.3	1505.8
152.5°	1537.6	1546.7	1554.3	1560.4	1554.3
155°	1584.6	1589.2	1593.7	1601.3	1596.8
157.5°	1625.6	1628.6	1631.6	1642.3	1634.7
160°	1662.0	1665.0	1666.5	1675.6	1669.6
162.5°	1695.3	1695.3	1696.9	1707.5	1699.9
165°	1724.1	1722.6	1722.6	1733.2	1725.7
167.5°	1749.9	1745.4	1745.4	1756.0	1748.4
170°	1769.6	1765.1	1763.6	1774.2	1765.1
172.5°	1783.3	1778.7	1777.2	1787.8	1778.7
175°	1793.9	1789.4	1786.3	1796.9	1787.8
177.5°	1800.0	1795.4	1792.4	1801.5	1792.4
180°	1796.9	1796.9	1796.9	1796.9	1796.9

(END OF REPORT)