

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: P1029498

Luminaire Tested: S122DIW-B485D1440UB2750-4F0-XX-W2A-F1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029498
REPORT IS A COMBINATION OF REPORTS P986047 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D1440UB2750-4F0-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

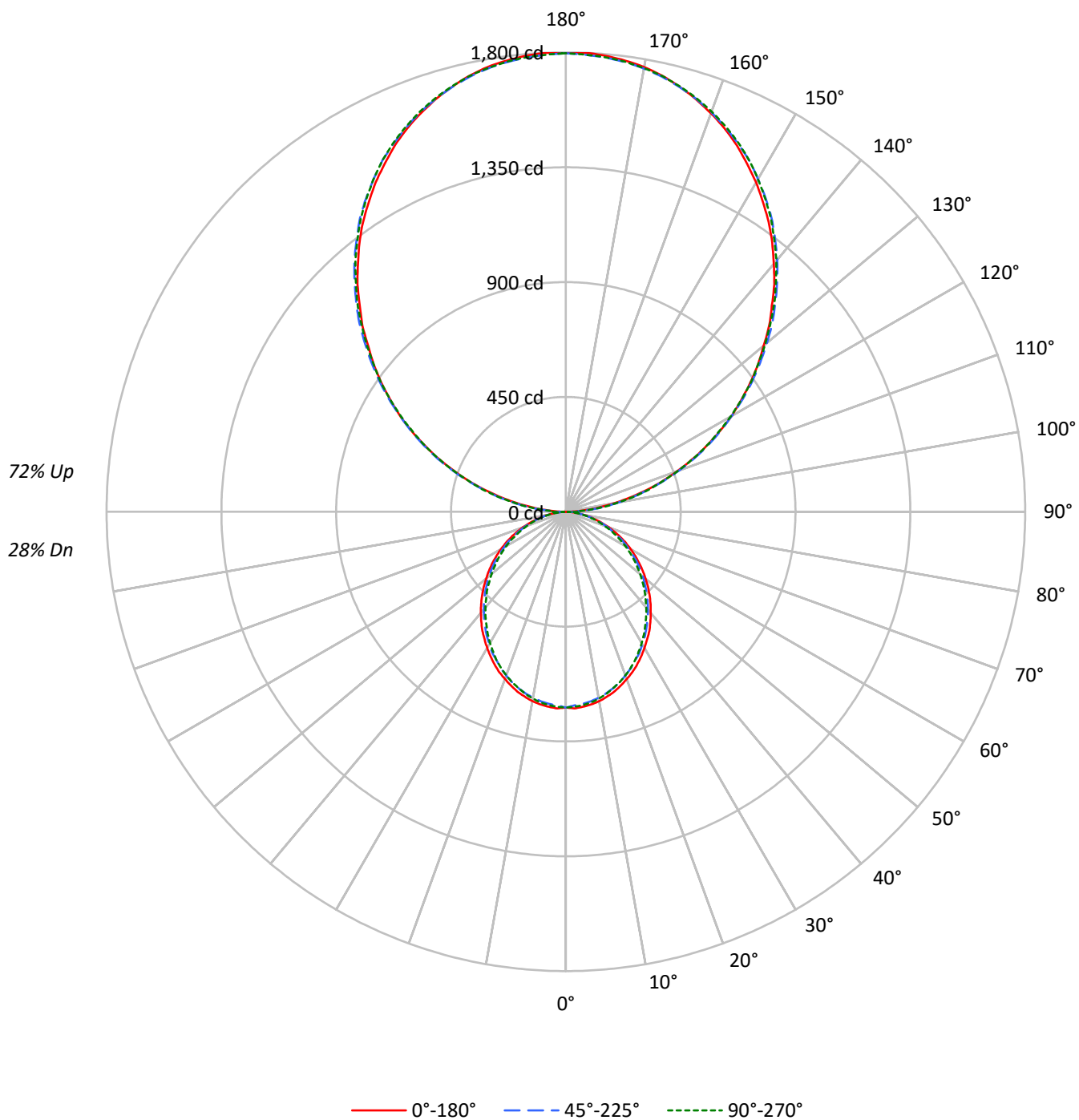
Lumens per Lamp: N/A
Luminaire Lumens: 6980.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 76.2
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36			28
1	93	89	85	82	83	79	76	73	62	60	58	46	45	44	32	31	30			24
2	85	77	71	66	75	69	64	60	54	51	48	41	38	37	28	27	25			20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22			17
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19			14
5	64	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16			12
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14			11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13			10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11			9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10			8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12139	12139	12139
5°	12159	11571	11488
10°	12060	11044	10825
15°	11883	10512	10125
20°	11644	9934	9464
25°	11407	9330	8802
30°	11106	8764	8109
35°	10825	8165	7428
40°	10476	7574	6783
45°	10129	6989	6152
50°	9752	6394	5497
55°	9353	5755	4877
60°	8906	5066	4232
65°	8415	4365	3554
70°	7791	3597	2869
75°	6931	2773	2216
80°	5884	1884	1425
85°	4266	878	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10129 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.0
10°-20°	203.1	2.9
20°-30°	298.4	4.3
30°-40°	346.6	5.0
40°-50°	346.2	5.0
50°-60°	301.9	4.3
60°-70°	223.1	3.2
70°-80°	126.3	1.8
80°-90°	38.4	0.6
90°-100°	111.1	1.6
100°-110°	353.4	5.1
110°-120°	604.7	8.7
120°-130°	795.2	11.4
130°-140°	892.6	12.8
140°-150°	875.4	12.5
150°-160°	734.3	10.5
160°-170°	487.0	7.0
170°-180°	170.2	2.4
0°-30°	573.7	8.2
0°-40°	920.3	13.2
0°-60°	1568.3	22.5
0°-90°	1956.1	28.0
90°-120°	1069.2	15.3
90°-150°	3632.4	52.0
90°-180°	5024.0	72.0
0°-180°	6980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	764	756	762	760	73
15°	730	726	716	719	715	206
25°	661	655	642	644	642	304
35°	570	563	551	546	543	356
45°	464	459	448	440	436	358
55°	351	347	338	329	325	314
65°	237	232	225	218	215	234
75°	124	122	119	114	116	132
85°	30	30	29	26	26	34
90°	2	20	53	50	52	7
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°	766.9	766.9	766.9	766.9	766.9
2.5°	771.3	767.6	759.5	766.9	765.4
5°	766.9	763.9	755.8	761.7	760.2
7.5°	761.7	757.3	749.2	755.1	753.6
10°	753.6	748.4	739.6	745.5	743.3
12.5°	742.5	738.1	729.2	732.9	731.5
15°	730.0	725.6	716.0	718.9	715.2
17.5°	714.5	710.1	700.5	704.2	700.5
20°	697.5	693.1	682.8	685.0	682.1
22.5°	680.6	673.9	664.4	664.4	662.9
25°	660.7	654.8	642.2	643.7	642.2
27.5°	638.6	633.4	623.8	621.6	617.9
30°	616.4	610.5	599.5	597.3	594.3
32.5°	592.8	588.4	576.6	572.2	569.2
35°	570.0	562.6	550.8	546.4	542.7
37.5°	544.2	537.5	525.7	520.6	516.9
40°	517.6	511.7	499.9	493.3	490.3
42.5°	491.8	485.9	474.1	466.7	462.3
45°	463.8	458.6	447.6	439.5	436.5
47.5°	436.5	431.4	419.6	411.4	407.0
50°	407.8	404.1	393.8	383.4	379.7
52.5°	379.7	374.6	365.0	356.9	351.7
55°	351.0	346.6	337.7	328.9	325.2
57.5°	322.2	318.5	309.0	300.1	297.2
60°	293.5	290.5	280.2	272.1	269.9
62.5°	265.4	260.3	252.9	245.5	242.6
65°	236.7	232.3	224.9	218.3	214.6
67.5°	207.2	203.5	196.9	191.7	188.8
70°	179.9	177.0	170.3	165.2	162.2
72.5°	151.9	148.9	145.3	140.1	137.9
75°	123.9	122.4	118.7	114.3	115.8
77.5°	98.8	95.9	94.4	92.2	90.0
80°	73.7	73.0	71.5	69.3	67.8
82.5°	50.1	50.1	49.4	46.5	46.5
85°	30.2	29.5	28.8	26.5	25.8
87.5°	13.3	11.8	10.3	8.1	7.4
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)