

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: P1029503

Luminaire Tested: S122DIW-B485D1440UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029503
REPORT IS A COMBINATION OF REPORTS P986057 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-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

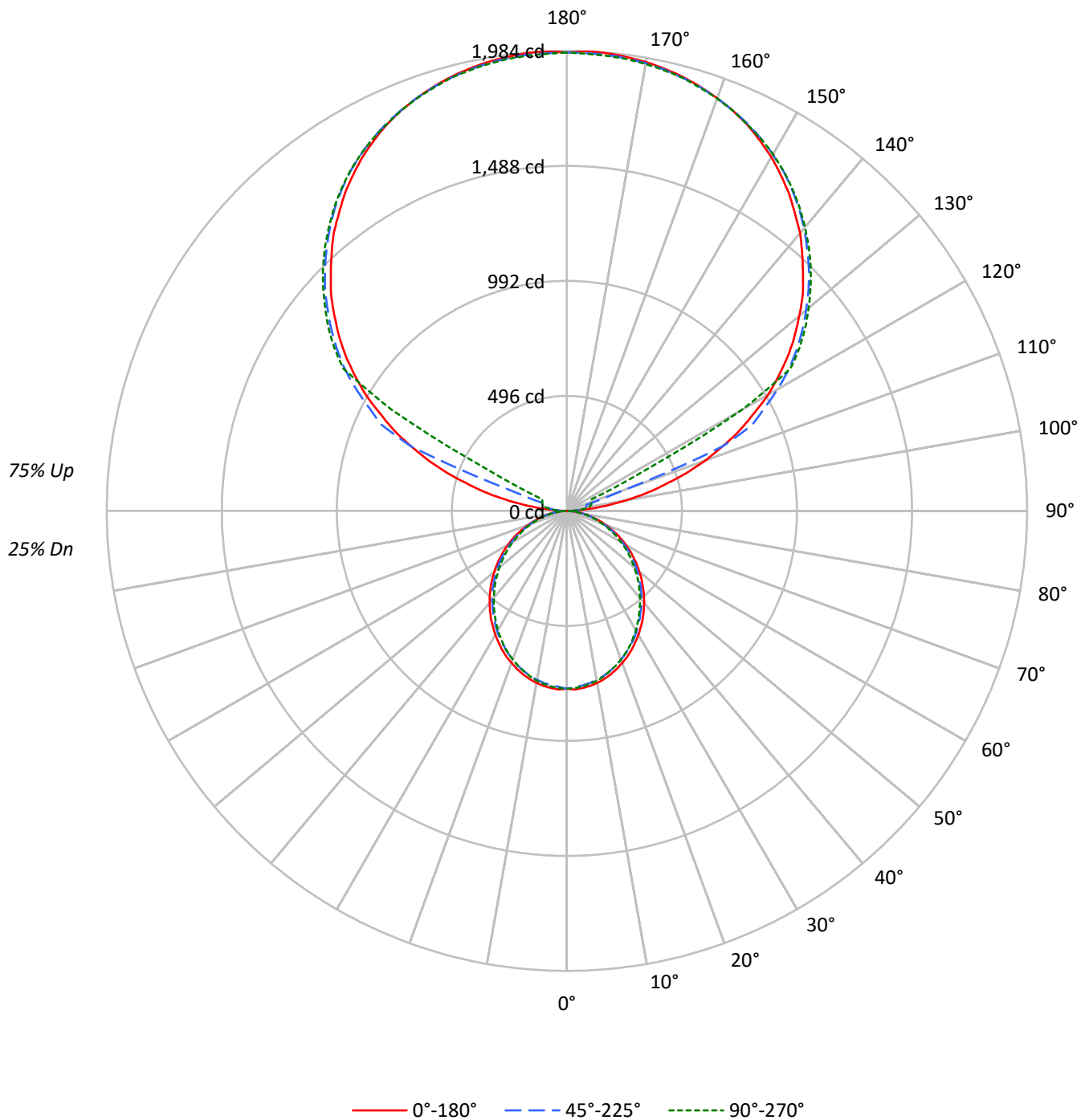
Lumens per Lamp: N/A
Luminaire Lumens: 7751.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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
RCR																	
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33
1	92	88	84	81	82	79	75	73	61	59	57	44	43	42	29	29	28
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24
3	77	67	60	55	68	60	54	50	47	43	39	34	32	30	23	21	20
4	70	60	52	46	62	53	47	42	42	37	33	31	28	25	20	19	17
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	17	15
6	59	47	40	34	52	42	36	31	33	28	25	25	21	19	17	15	13
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12
8	50	38	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	9

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	0.9
10°-20°	203.1	2.6
20°-30°	298.4	3.9
30°-40°	346.6	4.5
40°-50°	346.2	4.5
50°-60°	301.9	3.9
60°-70°	223.1	2.9
70°-80°	126.3	1.6
80°-90°	36.8	0.5
90°-100°	65.2	0.8
100°-110°	243.0	3.1
110°-120°	644.6	8.3
120°-130°	1069.1	13.8
130°-140°	1135.6	14.7
140°-150°	1055.5	13.6
150°-160°	848.5	10.9
160°-170°	546.8	7.1
170°-180°	188.2	2.4
0°-30°	573.7	7.4
0°-40°	920.3	11.9
0°-60°	1568.3	20.2
0°-90°	1954.5	25.2
90°-120°	952.9	12.3
90°-150°	4213.0	54.4
90°-180°	5797.0	74.8
0°-180°	7751.0	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°	1	17	29	36	39	7
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°	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°	1.4	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)