

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: P1029489

Luminaire Tested: S122DIW-B485D1440UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029489
REPORT IS A COMBINATION OF REPORTS P986033 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-D1_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

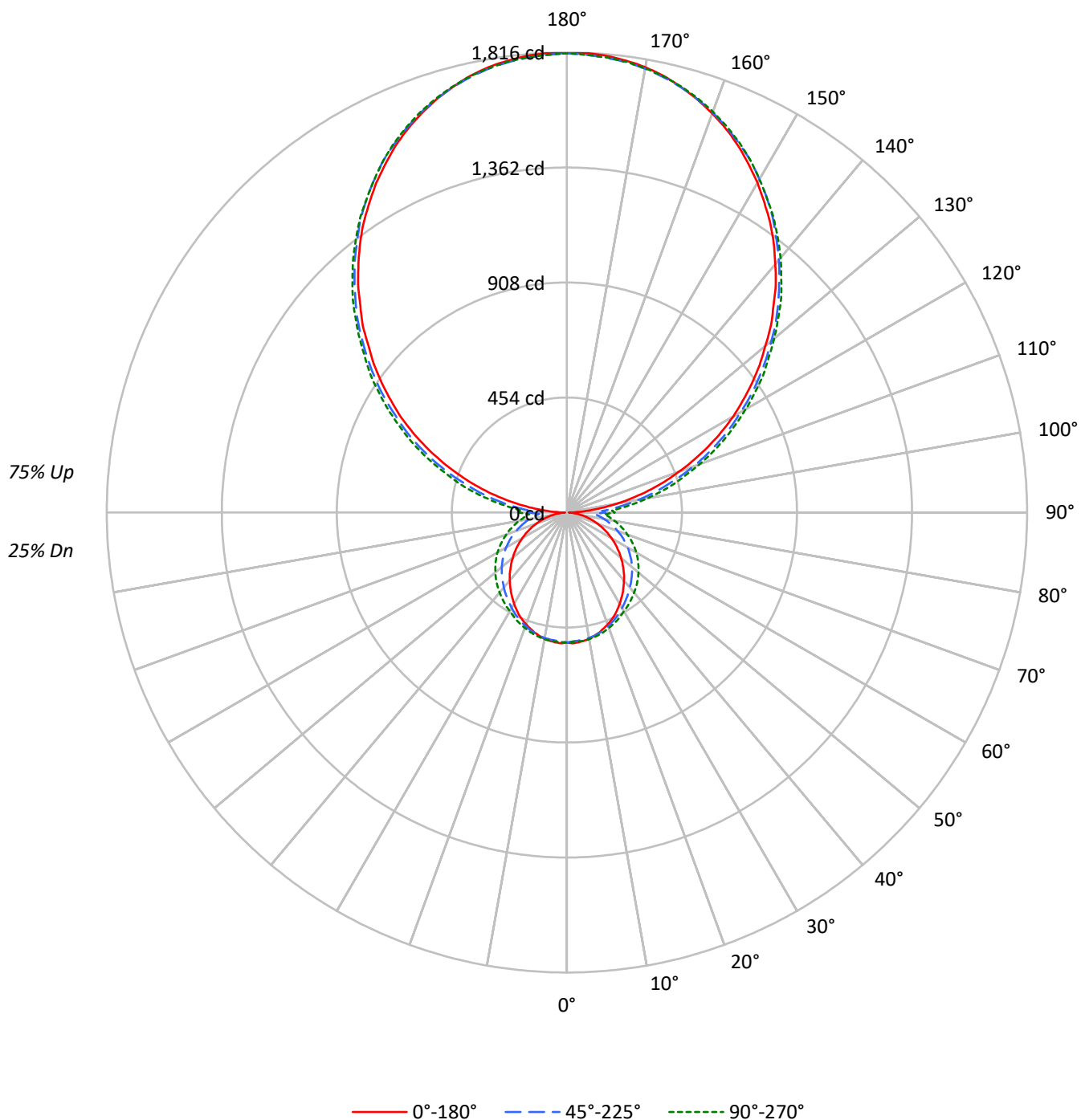
Lumens per Lamp: N/A
Luminaire Lumens: 7031.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1029489

CATALOG NUMBER: S122DIW-B485D1440UB2750-4F0-XX-W2A-D1_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1029489

CATALOG NUMBER: S122DIW-B485D1440UB2750-4F0-XX-W2A-D1_3000K

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	69	69	69	50	50	50	33	33	33
1	91	87	83	79	81	77	74	71	59	57	55	43	42	40	28	27	26
2	83	75	69	64	73	67	62	58	52	48	45	37	35	33	24	23	22
3	75	66	59	53	67	59	53	48	45	41	37	33	30	28	21	19	18
4	69	58	50	44	61	52	45	40	40	35	32	29	26	23	19	17	15
5	63	51	43	38	56	46	39	34	36	31	27	26	23	20	17	15	13
6	58	46	38	32	51	41	34	29	32	27	23	23	20	17	15	13	11
7	53	41	33	28	47	37	30	25	29	24	20	21	18	15	14	12	10
8	49	37	30	24	44	33	27	22	26	21	18	19	16	13	13	10	9
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	12	9	8
10	43	31	24	19	38	28	22	17	22	17	14	16	13	11	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

TEST NUMBER: P1029489

CATALOG NUMBER: S122DIW-B485D1440UB2750-4F0-XX-W2A-D1_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.7
10°-20°	139.5	2.0
20°-30°	211.4	3.0
30°-40°	257.4	3.7
40°-50°	277.0	3.9
50°-60°	269.0	3.8
60°-70°	234.9	3.3
70°-80°	180.8	2.6
80°-90°	126.2	1.8
90°-100°	195.7	2.8
100°-110°	417.5	5.9
110°-120°	650.3	9.2
120°-130°	824.6	11.7
130°-140°	909.9	12.9
140°-150°	884.6	12.6
150°-160°	740.7	10.5
160°-170°	491.2	7.0
170°-180°	171.7	2.4
0°-30°	399.6	5.7
0°-40°	657.0	9.3
0°-60°	1202.9	17.1
0°-90°	1744.9	24.8
90°-120°	1263.4	18.0
90°-150°	3882.5	55.2
90°-180°	5286.0	75.2
0°-180°	7031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	9	70	152	178	189	10
95°	85	136	183	212	218	93
105°	333	359	400	430	438	351
115°	615	632	663	683	687	608
125°	892	906	925	940	945	797
135°	1152	1169	1180	1194	1195	891
145°	1398	1409	1418	1424	1422	874
155°	1598	1603	1608	1615	1611	736
165°	1739	1738	1738	1748	1741	491
175°	1810	1805	1802	1813	1804	172
180°	1813	1813	1813	1813	1813	

TEST NUMBER: P1029489

CATALOG NUMBER: S122DIW-B485D1440UB2750-4F0-XX-W2A-D1_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.1	513.1	513.1	513.1	513.1
2.5°	516.9	514.6	509.4	513.1	511.7
5°	514.6	512.4	507.9	512.4	511.7
7.5°	510.9	509.4	505.7	510.9	510.2
10°	506.5	505.0	502.7	508.7	507.9
12.5°	499.0	499.8	498.3	504.2	503.5
15°	490.8	492.3	492.3	499.0	498.3
17.5°	480.4	483.4	485.6	492.3	492.3
20°	470.0	473.7	476.7	484.9	484.9
22.5°	458.9	463.3	467.8	476.0	477.5
25°	446.2	451.4	458.1	467.0	469.3
27.5°	431.3	439.5	447.0	458.1	459.6
30°	416.5	426.1	435.8	447.7	449.9
32.5°	400.1	411.3	423.2	437.3	441.8
35°	384.5	397.1	411.3	427.6	432.8
37.5°	367.4	381.5	399.4	417.2	422.4
40°	350.3	366.6	386.7	406.1	412.8
42.5°	333.9	350.3	374.1	395.6	402.3
45°	315.3	335.4	361.4	384.5	391.9
47.5°	297.5	319.0	348.8	372.6	380.8
50°	278.9	301.9	335.4	360.7	368.9
52.5°	261.0	285.6	321.3	347.3	356.2
55°	241.7	268.5	307.1	333.9	343.6
57.5°	223.1	252.9	291.5	320.5	330.2
60°	203.0	235.0	277.4	305.7	316.1
62.5°	185.2	218.6	261.0	291.5	301.2
65°	165.1	201.5	245.4	275.9	285.6
67.5°	147.3	185.2	229.8	260.3	270.7
70°	127.9	166.6	212.7	244.7	253.6
72.5°	110.1	150.2	197.1	228.3	239.5
75°	91.5	133.1	180.7	212.7	222.4
77.5°	73.6	116.8	165.1	197.1	207.5
80°	55.8	101.1	149.5	180.7	191.1
82.5°	40.9	85.5	134.6	165.8	175.5
85°	26.8	72.9	120.5	151.7	162.1
87.5°	16.4	61.0	108.6	139.1	148.7
90°	8.9	70.5	151.7	178.4	188.8
92.5°	40.4	92.0	138.9	169.4	178.3
95°	85.4	135.7	183.4	211.7	217.5
97.5°	138.3	184.0	233.3	260.8	269.8
100°	199.5	239.2	285.5	313.0	319.7
102.5°	263.0	296.7	343.0	371.2	377.9
105°	332.6	358.8	400.5	429.6	437.8
107.5°	402.9	427.0	464.2	490.9	491.4
110°	469.5	493.5	530.0	553.8	557.4

TEST NUMBER: P1029489

CATALOG NUMBER: S122DIW-B485D1440UB2750-4F0-XX-W2A-D1_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	543.0	564.1	596.7	615.9	621.1
115°	614.9	632.2	662.6	683.4	687.0
117.5°	686.0	704.2	727.8	745.5	748.4
120°	757.9	773.1	790.7	811.5	815.1
122.5°	823.6	839.7	859.6	875.1	878.7
125°	891.8	905.5	924.7	940.3	945.4
127.5°	959.1	975.1	989.1	1001.6	1003.7
130°	1021.8	1040.9	1053.5	1068.3	1068.1
132.5°	1092.2	1106.6	1119.4	1128.8	1130.2
135°	1152.5	1169.4	1179.9	1194.0	1195.3
137.5°	1219.8	1233.6	1240.5	1253.0	1252.1
140°	1279.5	1292.6	1301.7	1313.6	1311.9
142.5°	1340.7	1353.8	1358.3	1368.8	1366.4
145°	1398.1	1408.8	1418.0	1424.0	1421.6
147.5°	1450.1	1463.9	1470.0	1473.8	1470.0
150°	1503.7	1512.8	1519.0	1523.5	1519.0
152.5°	1551.1	1560.3	1567.9	1574.0	1567.9
155°	1598.5	1603.1	1607.7	1615.3	1610.7
157.5°	1639.8	1642.9	1645.9	1656.6	1649.0
160°	1676.5	1679.6	1681.1	1690.3	1684.2
162.5°	1710.2	1710.2	1711.7	1722.4	1714.8
165°	1739.2	1737.7	1737.7	1748.4	1740.8
167.5°	1765.2	1760.6	1760.6	1771.4	1763.7
170°	1785.1	1780.5	1779.0	1789.7	1780.5
172.5°	1798.9	1794.3	1792.8	1803.5	1794.3
175°	1809.6	1805.0	1801.9	1812.7	1803.5
177.5°	1815.7	1811.1	1808.1	1817.2	1808.1
180°	1812.7	1812.7	1812.7	1812.7	1812.7

(END OF REPORT)