

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: P1029198

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029198
REPORT IS A COMBINATION OF REPORTS P985136 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-D1_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

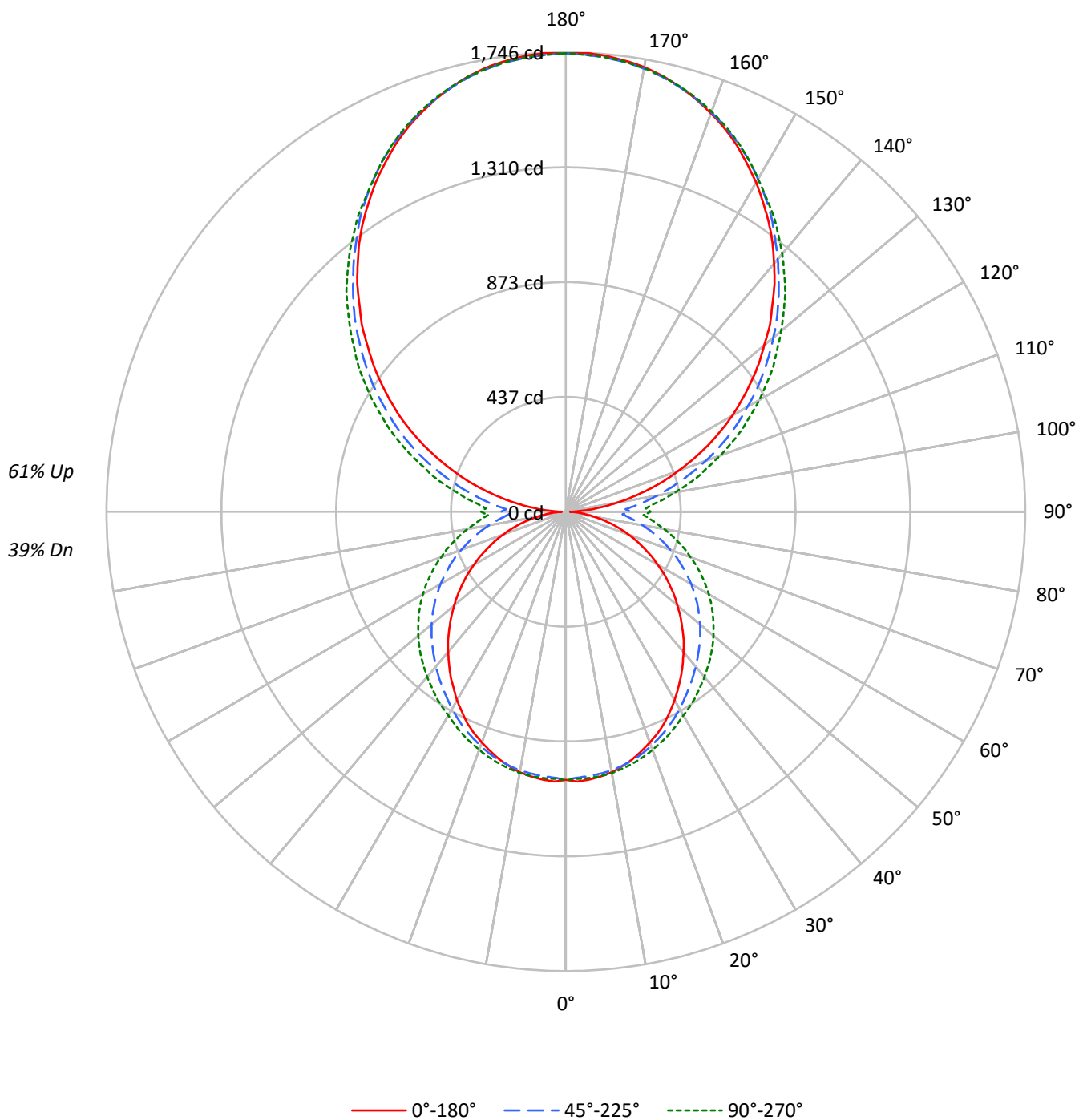
Lumens per Lamp: N/A
Luminaire Lumens: 8766.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46
1	94	89	85	81	85	81	78	74	66	63	61	52	50	49	39	38	37
2	85	77	71	65	77	70	65	60	57	53	50	45	42	40	34	32	30
3	77	68	60	54	70	62	55	50	50	45	41	39	36	33	30	27	25
4	71	60	51	45	64	54	47	42	44	39	35	35	31	28	26	23	21
5	65	53	44	38	58	48	41	35	39	34	30	31	27	24	23	21	18
6	59	47	39	33	54	43	36	30	35	30	26	28	24	21	21	18	16
7	55	42	34	29	50	39	32	27	32	26	22	25	21	18	19	16	14
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	18	15	13
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11
10	44	32	25	20	40	29	23	18	24	19	16	20	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16130	16130	16130
5°	16202	15441	15354
10°	16094	14906	14688
15°	15867	14353	14006
20°	15580	13772	13358
25°	15298	13216	12771
30°	14901	12651	12190
35°	14500	12105	11764
40°	14078	11634	11339
45°	13674	11207	10970
50°	13243	10813	10604
55°	12787	10395	10233
60°	12235	9958	9842
65°	11653	9457	9392
70°	11000	8921	8909
75°	10159	8383	8452
80°	8846	7821	7978
85°	7515	7294	7570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.1
10°-20°	277.0	3.2
20°-30°	419.8	4.8
30°-40°	511.2	5.8
40°-50°	550.0	6.3
50°-60°	534.1	6.1
60°-70°	466.4	5.3
70°-80°	359.0	4.1
80°-90°	245.4	2.8
90°-100°	273.7	3.1
100°-110°	463.9	5.3
110°-120°	666.5	7.6
120°-130°	815.9	9.3
130°-140°	884.5	10.1
140°-150°	852.2	9.7
150°-160°	712.2	8.1
160°-170°	472.4	5.4
170°-180°	165.1	1.9
0°-30°	793.4	9.1
0°-40°	1304.6	14.9
0°-60°	2388.7	27.2
0°-90°	3459.5	39.5
90°-120°	1404.1	16.0
90°-150°	3956.8	45.1
90°-180°	5306.0	60.5
0°-180°	8766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1022	1018	1009	1018	1016	97
15°	975	978	978	991	989	275
25°	886	896	910	927	932	407
35°	764	789	817	849	860	477
45°	626	666	718	764	778	483
55°	480	533	610	663	682	429
65°	328	400	487	548	567	326
75°	182	264	359	422	442	192
85°	53	145	239	301	322	56
90°	16	120	246	302	322	15
95°	88	172	264	320	335	95
105°	324	371	451	505	521	342
115°	594	619	683	726	738	587
125°	859	872	915	951	962	768
135°	1109	1125	1143	1172	1180	857
145°	1344	1355	1364	1374	1375	840
155°	1537	1542	1546	1553	1549	708
165°	1672	1671	1671	1681	1674	472
175°	1740	1736	1733	1743	1734	165
180°	1743	1743	1743	1743	1743	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1026.3	1021.9	1011.6	1019.0	1016.0
5°	1021.9	1017.5	1008.6	1017.5	1016.0
7.5°	1014.5	1011.6	1004.2	1014.5	1013.1
10°	1005.7	1002.7	998.3	1010.1	1008.6
12.5°	990.9	992.4	989.4	1001.2	999.8
15°	974.7	977.6	977.6	990.9	989.4
17.5°	954.0	959.9	964.3	977.6	977.6
20°	933.3	940.7	946.6	962.8	962.8
22.5°	911.2	920.0	928.9	945.1	948.1
25°	886.1	896.4	909.7	927.4	931.8
27.5°	856.5	872.8	887.5	909.7	912.6
30°	827.0	846.2	865.4	889.0	893.4
32.5°	794.5	816.6	840.3	868.3	877.2
35°	763.5	788.6	816.6	849.1	859.5
37.5°	729.5	757.6	793.0	828.5	838.8
40°	695.6	728.0	767.9	806.3	819.6
42.5°	663.1	695.6	742.8	785.6	798.9
45°	626.1	666.0	717.7	763.5	778.3
47.5°	590.7	633.5	692.6	739.9	756.1
50°	553.8	599.6	666.0	716.2	732.5
52.5°	518.3	567.1	638.0	689.6	707.4
55°	479.9	533.1	609.9	663.1	682.3
57.5°	443.0	502.1	578.9	636.5	655.7
60°	403.2	466.7	550.8	606.9	627.6
62.5°	367.7	434.2	518.3	578.9	598.1
65°	327.8	400.2	487.3	547.9	567.1
67.5°	292.4	367.7	456.3	516.9	537.5
70°	254.0	330.8	422.4	485.9	503.6
72.5°	218.6	298.3	391.3	453.4	475.5
75°	181.6	264.3	358.9	422.4	441.6
77.5°	146.2	231.9	327.8	391.3	412.0
80°	110.8	200.8	296.8	358.9	379.5
82.5°	81.2	169.8	267.3	329.3	348.5
85°	53.2	144.7	239.2	301.3	321.9
87.5°	32.5	121.1	215.6	276.2	295.4
90°	16.3	119.5	246.4	302.5	321.7
92.5°	45.7	135.7	227.2	286.3	304.1
95°	88.3	172.4	263.9	320.0	334.9
97.5°	138.3	215.0	306.6	361.2	379.0
100°	197.1	263.6	350.7	405.3	420.1
102.5°	257.5	315.0	400.6	455.3	470.0
105°	323.6	370.8	450.6	505.2	521.4
107.5°	391.3	432.6	506.5	558.2	567.0
110°	454.5	492.8	565.2	612.5	624.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	525.1	557.5	624.1	666.9	680.2
115°	594.2	619.4	682.8	725.7	737.5
117.5°	661.9	685.4	740.2	780.1	790.4
120°	731.0	748.7	796.0	837.4	849.2
122.5°	794.3	810.5	857.7	893.2	903.6
125°	859.0	872.3	915.1	950.6	962.4
127.5°	923.8	938.4	972.4	1003.5	1012.4
130°	984.1	1001.7	1029.7	1062.2	1068.1
132.5°	1051.7	1064.9	1088.5	1115.2	1122.5
135°	1109.1	1125.2	1142.9	1172.5	1179.9
137.5°	1173.8	1187.0	1197.4	1223.9	1228.4
140°	1231.1	1242.9	1253.2	1276.8	1279.8
142.5°	1290.0	1301.7	1306.1	1325.3	1326.8
145°	1344.4	1354.7	1363.5	1373.9	1375.3
147.5°	1394.4	1407.6	1413.5	1417.9	1416.5
150°	1445.9	1454.7	1460.6	1465.0	1460.6
152.5°	1491.5	1500.3	1507.6	1513.5	1507.6
155°	1537.1	1541.5	1545.9	1553.2	1548.8
157.5°	1576.8	1579.7	1582.7	1593.0	1585.6
160°	1612.1	1615.0	1616.5	1625.3	1619.4
162.5°	1644.4	1644.4	1645.9	1656.2	1648.8
165°	1672.4	1670.9	1670.9	1681.2	1673.8
167.5°	1697.4	1693.0	1693.0	1703.3	1695.9
170°	1716.5	1712.1	1710.6	1720.9	1712.1
172.5°	1729.7	1725.3	1723.9	1734.2	1725.3
175°	1740.0	1735.6	1732.7	1743.0	1734.2
177.5°	1745.9	1741.5	1738.6	1747.4	1738.6
180°	1743.0	1743.0	1743.0	1743.0	1743.0

(END OF REPORT)