

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: P1029207

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029207
REPORT IS A COMBINATION OF REPORTS P985150 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_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

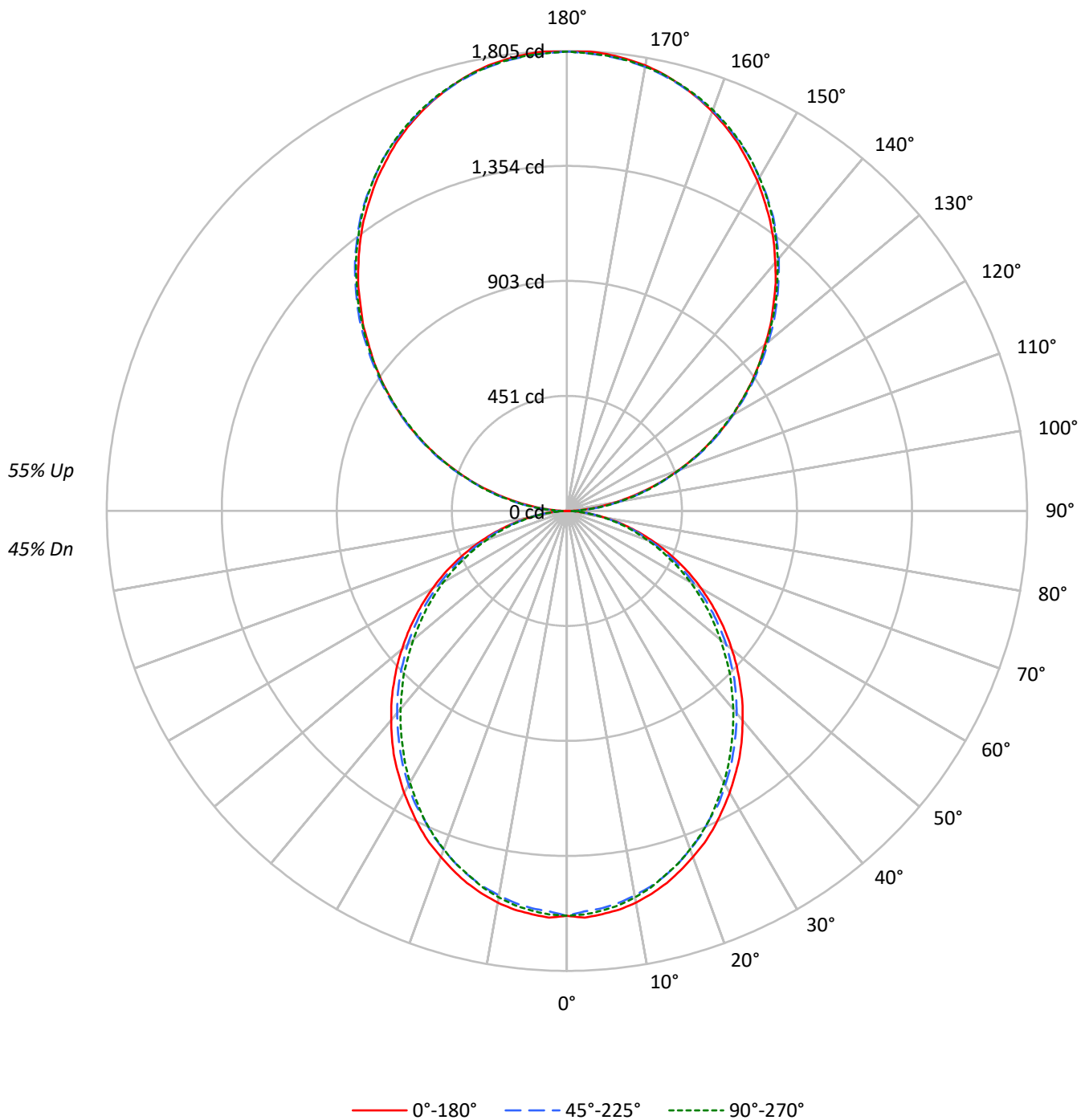
Lumens per Lamp: N/A
Luminaire Lumens: 9085.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	25142	25142	25142
5°	25183	23965	23795
10°	24979	22873	22420
15°	24613	21773	20971
20°	24118	20575	19601
25°	23625	19325	18232
30°	23005	18152	16796
35°	22421	16912	15385
40°	21698	15689	14051
45°	20979	14475	12743
50°	20197	13242	11386
55°	19372	11922	10101
60°	18443	10493	8766
65°	17426	9040	7360
70°	16136	7451	5944
75°	14354	5744	4590
80°	12191	3903	2954
85°	8843	1817	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20979 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.6
10°-20°	420.6	4.6
20°-30°	618.1	6.8
30°-40°	717.9	7.9
40°-50°	717.0	7.9
50°-60°	625.2	6.9
60°-70°	462.2	5.1
70°-80°	261.5	2.9
80°-90°	74.1	0.8
90°-100°	111.5	1.2
100°-110°	354.4	3.9
110°-120°	606.5	6.7
120°-130°	797.6	8.8
130°-140°	895.3	9.9
140°-150°	878.0	9.7
150°-160°	736.5	8.1
160°-170°	488.4	5.4
170°-180°	170.7	1.9
0°-30°	1188.2	13.1
0°-40°	1906.1	21.0
0°-60°	3248.3	35.8
0°-90°	4046.1	44.5
90°-120°	1072.4	11.8
90°-150°	3643.2	40.1
90°-180°	5039.0	55.5
0°-180°	9085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1588	1582	1565	1578	1575	151
15°	1512	1503	1483	1489	1481	426
25°	1368	1356	1330	1333	1330	630
35°	1181	1165	1141	1132	1124	737
45°	961	950	927	910	904	741
55°	727	718	700	681	674	650
65°	490	481	466	452	444	485
75°	257	254	246	237	240	274
85°	63	61	60	55	54	70
90°	2	20	53	50	52	9
95°	79	94	97	97	94	88
105°	327	332	335	338	338	345
115°	608	618	614	613	608	602
125°	885	899	894	890	888	791
135°	1145	1162	1165	1164	1159	885
145°	1390	1401	1410	1411	1405	869
155°	1589	1594	1598	1606	1602	732
165°	1729	1728	1728	1738	1731	488
175°	1799	1795	1792	1802	1793	171
180°	1802	1802	1802	1802	1802	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.3	1588.3	1588.3	1588.3	1588.3
2.5°	1597.5	1589.9	1573.1	1588.3	1585.3
5°	1588.3	1582.2	1565.4	1577.7	1574.6
7.5°	1577.7	1568.5	1551.7	1563.9	1560.9
10°	1560.9	1550.2	1531.8	1544.1	1539.5
12.5°	1537.9	1528.8	1510.5	1518.1	1515.0
15°	1512.0	1502.8	1483.0	1489.1	1481.4
17.5°	1479.9	1470.7	1450.9	1458.5	1450.9
20°	1444.8	1435.6	1414.2	1418.8	1412.7
22.5°	1409.7	1395.9	1376.1	1376.1	1373.0
25°	1368.4	1356.2	1330.2	1333.3	1330.2
27.5°	1322.6	1311.9	1292.1	1287.5	1279.8
30°	1276.8	1264.6	1241.7	1237.1	1231.0
32.5°	1227.9	1218.7	1194.3	1185.1	1179.0
35°	1180.6	1165.3	1140.9	1131.7	1124.1
37.5°	1127.1	1113.4	1088.9	1078.2	1070.6
40°	1072.1	1059.9	1035.5	1021.7	1015.6
42.5°	1018.7	1006.5	982.0	966.8	957.6
45°	960.6	950.0	927.0	910.2	904.1
47.5°	904.1	893.4	869.0	852.2	843.0
50°	844.6	836.9	815.6	794.2	786.5
52.5°	786.5	775.8	756.0	739.2	728.5
55°	727.0	717.8	699.5	681.2	673.5
57.5°	667.4	659.8	639.9	621.6	615.5
60°	607.8	601.7	580.4	563.6	559.0
62.5°	549.8	539.1	523.8	508.6	502.5
65°	490.2	481.1	465.8	452.1	444.4
67.5°	429.2	421.5	407.8	397.1	391.0
70°	372.6	366.5	352.8	342.1	336.0
72.5°	314.6	308.5	300.9	290.2	285.6
75°	256.6	253.5	245.9	236.7	239.8
77.5°	204.7	198.5	195.5	190.9	186.3
80°	152.7	151.2	148.1	143.6	140.5
82.5°	103.9	103.9	102.3	96.2	96.2
85°	62.6	61.1	59.6	55.0	53.5
87.5°	27.5	24.4	21.4	16.8	15.3
90°	1.5	19.8	53.2	50.2	51.7
92.5°	33.5	45.6	47.1	48.7	48.7
95°	79.1	94.3	97.3	97.3	94.3
97.5°	132.3	146.0	152.1	152.1	152.1
100°	193.2	205.3	209.9	209.9	208.4
102.5°	257.0	266.2	272.2	273.8	272.2
105°	327.0	331.6	334.6	337.6	337.6
107.5°	397.0	403.0	403.0	404.6	397.0
110°	463.9	473.0	473.0	473.0	468.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	536.9	546.0	544.5	539.9	536.9
115°	608.4	617.5	614.5	612.9	608.4
117.5°	679.9	692.0	684.4	679.9	675.3
120°	751.3	763.5	751.3	751.3	746.8
122.5°	816.7	831.9	824.3	819.8	816.7
125°	885.2	898.9	894.3	889.7	888.2
127.5°	952.1	968.8	962.7	956.7	952.1
130°	1014.5	1034.2	1031.2	1028.1	1022.1
132.5°	1084.4	1099.6	1101.1	1093.5	1089.0
135°	1145.3	1162.0	1165.0	1163.5	1158.9
137.5°	1212.2	1225.9	1228.9	1227.4	1221.3
140°	1271.5	1285.2	1292.8	1292.8	1286.7
142.5°	1332.3	1346.0	1350.6	1352.1	1346.0
145°	1390.1	1400.8	1409.9	1411.4	1405.3
147.5°	1441.8	1455.5	1461.6	1464.6	1458.6
150°	1495.1	1504.2	1510.3	1514.8	1510.3
152.5°	1542.2	1551.3	1558.9	1565.0	1558.9
155°	1589.4	1593.9	1598.5	1606.1	1601.5
157.5°	1630.4	1633.5	1636.5	1647.2	1639.6
160°	1666.9	1670.0	1671.5	1680.6	1674.5
162.5°	1700.4	1700.4	1701.9	1712.6	1705.0
165°	1729.3	1727.8	1727.8	1738.4	1730.8
167.5°	1755.1	1750.6	1750.6	1761.2	1753.6
170°	1774.9	1770.4	1768.8	1779.5	1770.4
172.5°	1788.6	1784.0	1782.5	1793.2	1784.0
175°	1799.3	1794.7	1791.6	1802.3	1793.2
177.5°	1805.3	1800.8	1797.7	1806.9	1797.7
180°	1802.3	1802.3	1802.3	1802.3	1802.3

(END OF REPORT)