

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: P1029212

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029212
REPORT IS A COMBINATION OF REPORTS P985160 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-F_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

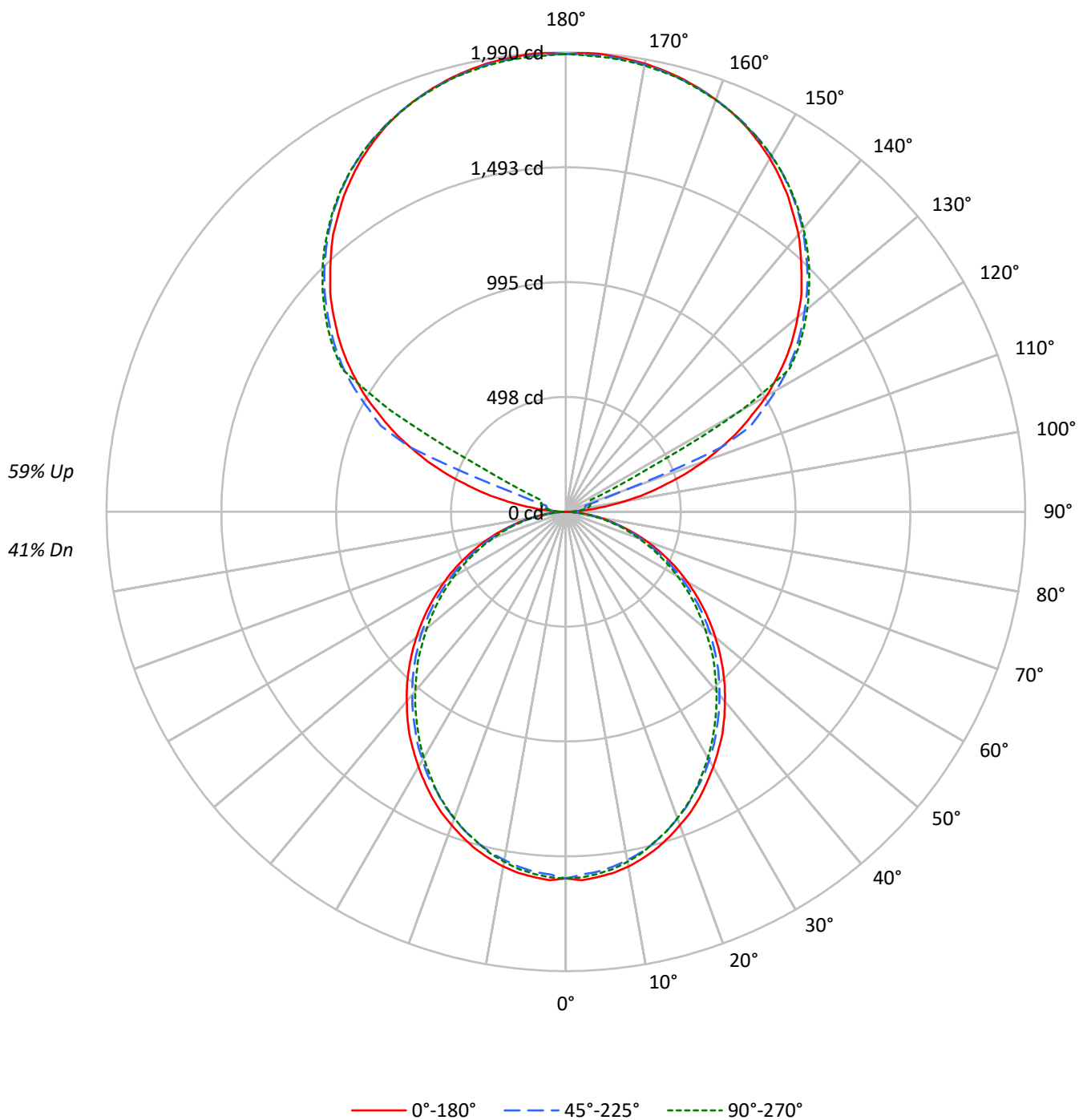
Lumens per Lamp: N/A
Luminaire Lumens: 9858.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48			41
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40			35
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	36	34			29
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29			25
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25			21
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22			18
6	61	50	42	36	56	45	38	33	38	33	29	31	27	24	24	21	19			16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17			14
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15			13
9	49	37	30	25	45	34	27	23	29	23	20	23	20	17	19	16	14			12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12			10

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	1.5
10°-20°	420.6	4.3
20°-30°	618.1	6.3
30°-40°	717.9	7.3
40°-50°	717.0	7.3
50°-60°	625.2	6.3
60°-70°	462.2	4.7
70°-80°	261.5	2.7
80°-90°	72.5	0.7
90°-100°	65.4	0.7
100°-110°	243.8	2.5
110°-120°	646.5	6.6
120°-130°	1072.2	10.9
130°-140°	1138.9	11.6
140°-150°	1058.5	10.7
150°-160°	851.0	8.6
160°-170°	548.4	5.6
170°-180°	188.7	1.9
0°-30°	1188.2	12.1
0°-40°	1906.1	19.3
0°-60°	3248.3	33.0
0°-90°	4044.5	41.0
90°-120°	955.6	9.7
90°-150°	4225.4	42.9
90°-180°	5814.0	59.0
0°-180°	9858.0	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°	1	17	29	36	39	9
95°	93	46	56	63	62	110
105°	436	479	88	103	109	466
115°	825	850	885	221	118	812
125°	1167	1185	1212	1222	1227	1040
135°	1444	1466	1479	1494	1491	1115
145°	1674	1673	1698	1708	1700	1047
155°	1844	1831	1848	1857	1845	850
165°	1943	1934	1938	1949	1938	549
175°	1987	1977	1980	1990	1976	189
180°	1983	1983	1983	1983	1983	

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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°	1.4	17.2	28.7	35.9	38.7
92.5°	35.9	30.1	34.4	37.3	38.7
95°	93.3	45.9	56.0	63.1	61.7
97.5°	167.9	50.2	73.2	77.5	78.9
100°	254.0	57.4	81.8	93.3	96.1
102.5°	348.7	345.8	84.7	100.4	104.7
105°	436.2	479.3	87.5	103.3	109.1
107.5°	538.1	574.0	90.4	106.2	111.9
110°	635.7	665.8	251.1	107.6	113.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	727.5	753.3	728.9	110.5	114.8
115°	825.1	849.5	885.3	221.0	117.7
117.5°	909.7	938.4	962.8	757.6	381.7
120°	1004.4	1025.9	1051.8	1069.0	875.3
122.5°	1084.8	1107.7	1136.4	1145.0	1146.5
125°	1166.6	1185.2	1212.5	1222.5	1226.8
127.5°	1241.2	1261.3	1282.8	1297.1	1298.6
130°	1311.5	1334.4	1350.2	1366.0	1364.6
132.5°	1383.2	1401.9	1417.7	1430.6	1429.1
135°	1443.5	1466.5	1479.4	1493.7	1490.8
137.5°	1506.6	1523.9	1538.2	1552.6	1548.2
140°	1568.3	1579.8	1595.6	1608.5	1601.3
142.5°	1620.0	1630.0	1648.7	1660.2	1653.0
145°	1674.5	1673.1	1697.5	1707.5	1700.3
147.5°	1721.9	1717.6	1742.0	1749.1	1743.4
150°	1767.8	1757.7	1780.7	1789.3	1782.1
152.5°	1806.5	1795.0	1816.6	1825.2	1815.1
155°	1843.8	1830.9	1848.1	1856.7	1845.3
157.5°	1874.0	1862.5	1875.4	1885.4	1874.0
160°	1899.8	1891.2	1899.8	1908.4	1898.4
162.5°	1922.8	1914.1	1921.3	1931.4	1918.4
165°	1942.8	1934.2	1938.5	1948.6	1938.5
167.5°	1958.6	1950.0	1954.3	1964.4	1951.4
170°	1971.5	1962.9	1965.8	1975.8	1962.9
172.5°	1980.1	1971.5	1974.4	1984.5	1971.5
175°	1987.3	1977.3	1980.1	1990.2	1975.8
177.5°	1990.2	1980.1	1981.6	1991.6	1978.7
180°	1983.0	1983.0	1983.0	1983.0	1983.0

(END OF REPORT)