

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: P1035005

Luminaire Tested: S125DIW-B1090D1560UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035005
REPORT IS A COMBINATION OF REPORTS P1002885 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1560UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

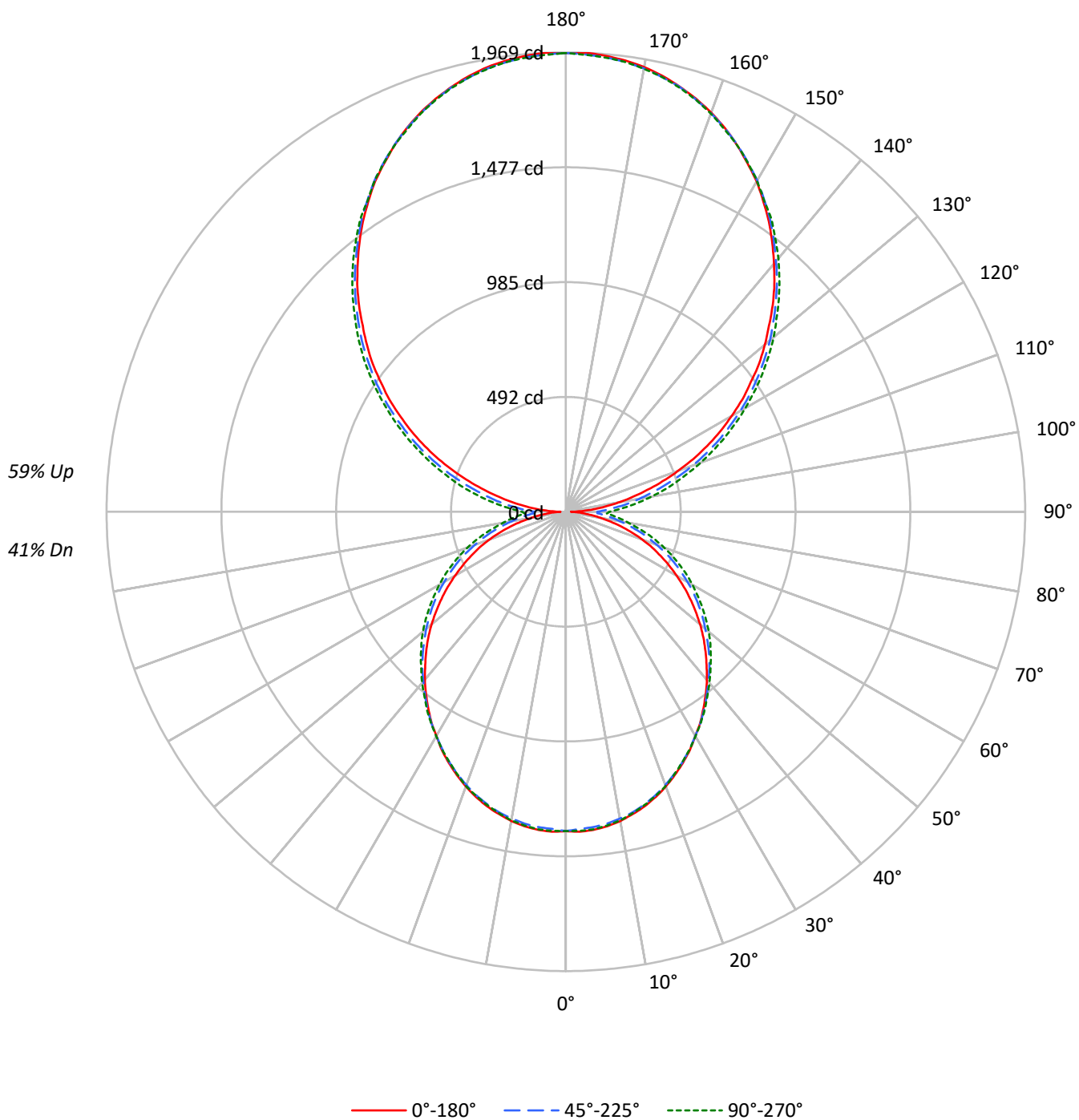
Lumens per Lamp: N/A
Luminaire Lumens: 9731.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 99
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: P1035005

CATALOG NUMBER: S125DIW-B1090D1560UB30-4F0-XX-W2A-D1

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	96	96	96	96	78	78	78	62	62	62	48	48	48
1	95	91	87	83	86	83	79	76	68	65	63	54	52	51	41	40	39
2	86	79	72	67	78	72	66	62	59	55	52	47	44	42	36	34	32
3	79	69	62	56	71	63	57	51	52	47	43	41	38	35	32	29	27
4	72	61	53	47	65	56	49	43	46	41	36	37	33	30	28	26	23
5	66	54	46	40	60	50	42	37	41	35	31	33	29	26	25	23	20
6	61	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	32	26	47	36	29	25	30	25	21	25	20	18	19	16	14
9	48	36	28	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	14	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8769	8769	8769
5°	8784	8585	8606
10°	8718	8411	8387
15°	8612	8207	8116
20°	8468	7961	7847
25°	8299	7699	7522
30°	8093	7414	7227
35°	7902	7150	6954
40°	7705	6873	6679
45°	7485	6633	6432
50°	7273	6372	6210
55°	7019	6122	5951
60°	6741	5839	5686
65°	6449	5541	5386
70°	6116	5140	5076
75°	5590	4744	4697
80°	4899	4264	4276
85°	4220	3880	4055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7485 cd/sqm

TEST NUMBER: P1035005

CATALOG NUMBER: S125DIW-B1090D1560UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.3
10°-20°	367.7	3.8
20°-30°	546.7	5.6
30°-40°	647.5	6.7
40°-50°	669.4	6.9
50°-60°	616.7	6.3
60°-70°	498.5	5.1
70°-80°	333.6	3.4
80°-90°	175.5	1.8
90°-100°	227.9	2.3
100°-110°	460.0	4.7
110°-120°	706.7	7.3
120°-130°	894.4	9.2
130°-140°	983.7	10.1
140°-150°	954.9	9.8
150°-160°	800.2	8.2
160°-170°	531.9	5.5
170°-180°	186.1	1.9
0°-30°	1043.9	10.7
0°-40°	1691.5	17.4
0°-60°	2977.5	30.6
0°-90°	3985.1	41.0
90°-120°	1394.6	14.3
90°-150°	4227.7	43.4
90°-180°	5746.0	59.0
0°-180°	9731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1366	130
15°	1307	1308	1299	1307	1302	368
25°	1188	1192	1184	1189	1182	547
35°	1028	1037	1033	1037	1037	643
45°	847	862	868	878	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	352	358	262
85°	74	118	165	195	205	77
90°	23	78	134	173	187	22
95°	117	155	216	256	268	118
105°	361	390	440	476	490	385
115°	668	683	721	744	750	661
125°	968	976	1004	1022	1028	867
135°	1254	1262	1273	1291	1291	967
145°	1518	1523	1527	1534	1535	949
155°	1735	1735	1737	1743	1735	799
165°	1887	1884	1885	1891	1882	532
175°	1962	1956	1956	1965	1954	186
180°	1966	1966	1966	1966	1966	

TEST NUMBER: P1035005

CATALOG NUMBER: S125DIW-B1090D1560UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1372.7	1370.0	1360.7	1370.0	1368.7
5°	1368.7	1366.0	1356.6	1367.4	1366.0
7.5°	1359.3	1358.0	1348.6	1358.0	1356.6
10°	1345.9	1345.9	1335.2	1344.5	1343.2
12.5°	1327.1	1328.4	1320.4	1327.1	1323.1
15°	1307.0	1308.3	1298.9	1307.0	1301.6
17.5°	1281.5	1284.2	1274.8	1281.5	1277.5
20°	1253.3	1256.0	1246.6	1250.6	1250.6
22.5°	1221.1	1226.5	1215.7	1221.1	1217.1
25°	1187.6	1191.6	1183.5	1188.9	1182.2
27.5°	1151.3	1156.7	1147.3	1151.3	1148.6
30°	1109.7	1117.8	1109.7	1112.4	1111.1
32.5°	1072.2	1078.9	1073.5	1076.2	1074.8
35°	1027.9	1037.3	1033.2	1037.3	1037.3
37.5°	984.9	993.0	991.6	997.0	995.7
40°	940.6	951.4	950.0	955.4	958.1
42.5°	892.3	907.1	911.1	917.8	917.8
45°	846.7	861.5	868.2	877.6	878.9
47.5°	799.8	813.2	823.9	837.3	840.0
50°	751.4	766.2	781.0	795.7	799.8
52.5°	700.5	719.2	738.0	754.1	756.8
55°	650.8	672.3	693.7	708.5	713.9
57.5°	599.8	625.3	649.5	665.6	669.6
60°	548.8	575.7	602.5	622.6	626.7
62.5°	499.2	526.0	555.5	578.3	583.7
65°	448.2	479.0	511.3	531.4	536.7
67.5°	401.2	430.7	462.9	487.1	493.8
70°	348.9	379.7	414.6	440.1	448.2
72.5°	297.9	330.1	369.0	397.2	402.6
75°	246.9	281.8	324.7	351.6	358.3
77.5°	197.3	237.5	277.8	307.3	312.7
80°	151.6	191.9	237.5	267.0	272.4
82.5°	110.0	153.0	199.9	228.1	238.9
85°	73.8	118.1	165.0	194.6	205.3
87.5°	47.0	89.9	135.5	166.4	175.8
90°	23.0	78.2	134.5	173.0	187.0
92.5°	64.7	111.3	172.0	212.2	224.7
95°	116.9	154.8	215.8	256.0	268.5
97.5°	169.1	202.9	268.6	306.0	316.9
100°	229.0	257.1	320.0	362.0	373.1
102.5°	293.4	326.6	375.8	417.9	430.6
105°	361.0	390.0	439.5	475.5	489.5
107.5°	434.6	461.0	507.6	539.1	547.1
110°	511.3	535.1	577.3	607.4	615.2

TEST NUMBER: P1035005

CATALOG NUMBER: S125DIW-B1090D1560UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	590.9	606.1	648.4	674.1	680.3
115°	667.6	683.1	721.0	743.7	750.2
117.5°	745.8	754.0	790.7	815.0	818.3
120°	819.3	830.9	863.3	886.1	888.1
122.5°	897.5	900.4	934.4	954.4	957.9
125°	967.9	975.7	1004.1	1022.5	1027.6
127.5°	1044.6	1047.9	1072.2	1090.8	1095.8
130°	1113.4	1119.8	1141.6	1158.9	1162.5
132.5°	1181.0	1194.8	1206.6	1223.9	1224.7
135°	1254.4	1262.2	1273.1	1290.6	1291.2
137.5°	1323.3	1331.1	1339.5	1357.2	1354.9
140°	1387.7	1395.3	1401.3	1419.1	1416.8
142.5°	1453.5	1458.3	1464.4	1478.1	1475.7
145°	1517.8	1522.6	1527.2	1533.9	1534.7
147.5°	1576.1	1580.7	1583.8	1591.1	1581.5
150°	1635.8	1634.3	1640.4	1640.4	1638.7
152.5°	1684.8	1687.9	1689.4	1694.0	1687.9
155°	1735.3	1735.3	1736.8	1742.9	1735.3
157.5°	1781.2	1778.1	1779.7	1785.8	1775.1
160°	1821.0	1816.4	1817.9	1824.0	1816.4
162.5°	1856.2	1853.1	1853.1	1860.8	1851.6
165°	1886.8	1883.7	1885.3	1891.4	1882.2
167.5°	1914.3	1908.2	1908.2	1917.4	1908.2
170°	1935.8	1929.6	1929.6	1938.8	1928.1
172.5°	1951.1	1944.9	1944.9	1954.1	1944.9
175°	1961.8	1955.6	1955.6	1964.8	1954.1
177.5°	1969.4	1963.3	1961.8	1970.9	1960.2
180°	1966.4	1966.4	1966.4	1966.4	1966.4

(END OF REPORT)