

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: P1035006

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035006
REPORT IS A COMBINATION OF REPORTS P1002887 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-F
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

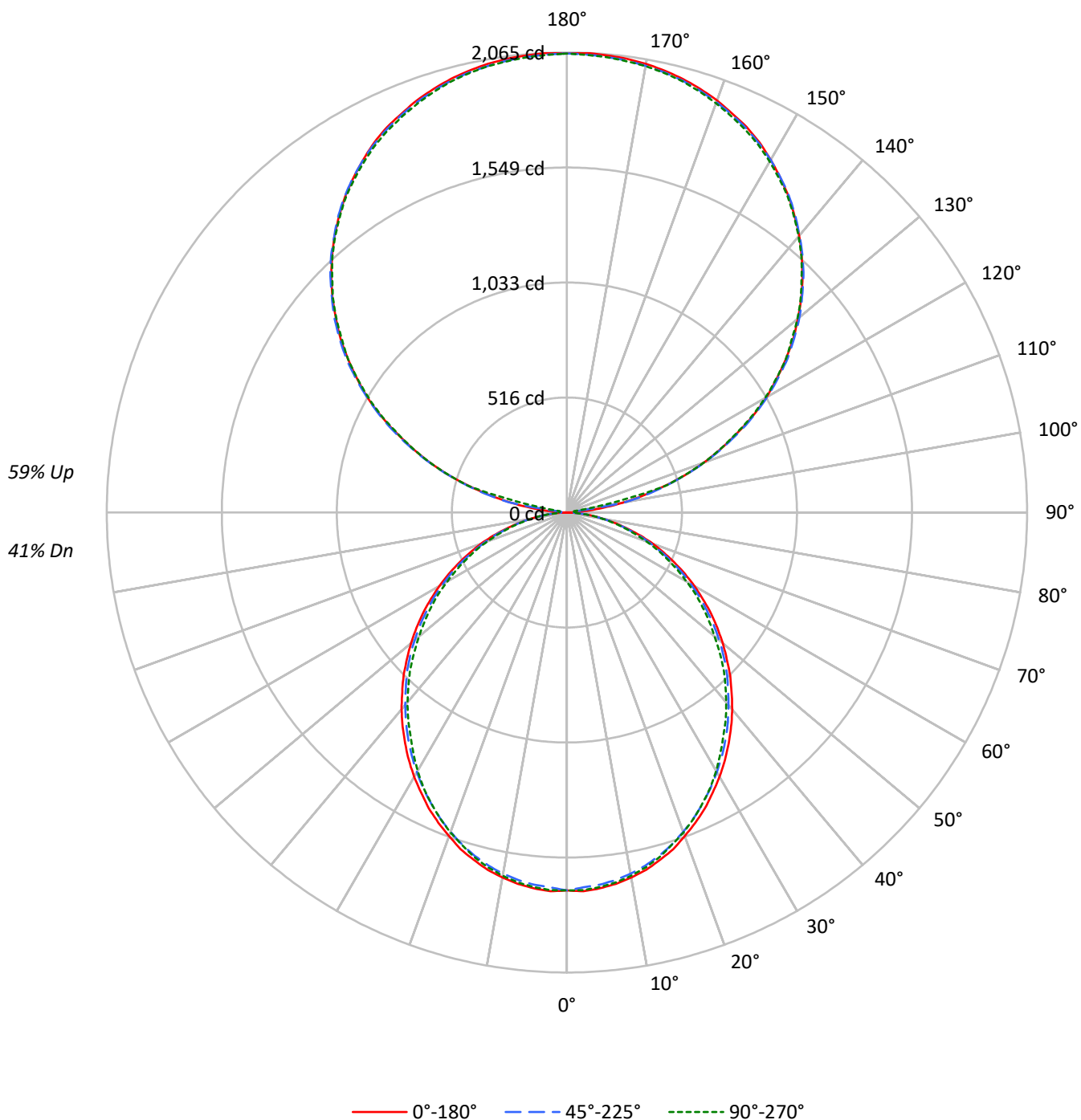
Lumens per Lamp: N/A
Luminaire Lumens: 10747.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	96	96	96	96	78	78	78	63	63	63	48	48	48
1	96	91	88	84	87	83	80	77	69	66	64	55	53	52	42	41	40
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	35	34
3	79	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17
8	53	40	33	27	48	37	30	26	31	26	22	25	21	19	20	17	15
9	49	37	29	24	44	34	27	23	29	23	20	23	19	17	19	16	14
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10868	10868	10868
5°	10869	10616	10636
10°	10779	10372	10340
15°	10637	10081	9991
20°	10446	9744	9591
25°	10241	9376	9163
30°	9993	8992	8711
35°	9728	8590	8205
40°	9454	8165	7755
45°	9158	7751	7278
50°	8833	7281	6721
55°	8511	6763	6209
60°	8126	6217	5613
65°	7666	5584	4997
70°	7199	4858	4285
75°	6412	4000	3466
80°	5465	2988	2549
85°	4220	1768	1405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9158 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.5
10°-20°	452.1	4.2
20°-30°	667.5	6.2
30°-40°	778.8	7.2
40°-50°	782.2	7.3
50°-60°	686.6	6.4
60°-70°	511.4	4.8
70°-80°	292.1	2.7
80°-90°	87.4	0.8
90°-100°	69.9	0.7
100°-110°	465.0	4.3
110°-120°	837.4	7.8
120°-130°	1074.8	10.0
130°-140°	1156.0	10.8
140°-150°	1084.9	10.1
150°-160°	877.6	8.2
160°-170°	567.6	5.3
170°-180°	195.7	1.8
0°-30°	1279.7	11.9
0°-40°	2058.4	19.2
0°-60°	3527.2	32.8
0°-90°	4418.1	41.1
90°-120°	1372.3	12.8
90°-150°	4688.0	43.6
90°-180°	6329.0	58.9
0°-180°	10747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1694	1691	1678	1690	1688	161
15°	1614	1610	1596	1602	1602	455
25°	1466	1459	1441	1444	1440	674
35°	1266	1260	1241	1235	1224	792
45°	1036	1031	1014	998	994	798
55°	789	785	766	754	745	704
65°	533	530	515	503	498	528
75°	283	280	274	270	264	301
85°	74	75	75	74	71	81
90°	2	14	24	32	37	9
95°	87	82	24	32	32	107
105°	449	455	455	455	454	476
115°	843	851	852	846	837	836
125°	1199	1210	1210	1204	1199	1071
135°	1495	1504	1501	1498	1489	1153
145°	1734	1737	1737	1738	1729	1084
155°	1909	1900	1903	1908	1895	880
165°	2014	2005	2007	2016	2004	569
175°	2060	2051	2053	2065	2051	196
180°	2060	2060	2060	2060	2060	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.3	1696.3	1696.3	1696.3	1696.3
2.5°	1701.6	1697.6	1684.2	1697.6	1696.3
5°	1693.6	1690.9	1677.5	1689.6	1688.2
7.5°	1681.5	1678.8	1664.1	1676.2	1674.8
10°	1664.1	1661.4	1646.6	1657.4	1656.0
12.5°	1642.6	1637.2	1623.8	1631.9	1631.9
15°	1614.4	1610.4	1595.6	1602.3	1602.3
17.5°	1584.9	1578.2	1563.4	1571.5	1564.8
20°	1546.0	1543.3	1525.8	1535.2	1528.5
22.5°	1507.1	1501.7	1485.6	1491.0	1486.9
25°	1465.5	1458.7	1441.3	1444.0	1440.0
27.5°	1417.1	1413.1	1395.7	1397.0	1393.0
30°	1370.2	1366.1	1346.0	1343.3	1339.3
32.5°	1319.2	1312.5	1295.0	1289.7	1281.6
35°	1265.5	1260.1	1241.3	1234.6	1223.9
37.5°	1210.5	1203.8	1186.3	1176.9	1170.2
40°	1154.1	1147.4	1128.6	1116.5	1112.5
42.5°	1093.7	1088.4	1069.6	1058.8	1052.1
45°	1036.0	1030.7	1014.5	998.4	994.4
47.5°	972.9	974.3	954.2	938.1	928.7
50°	912.6	908.5	892.4	875.0	865.6
52.5°	850.8	848.1	830.7	815.9	805.2
55°	789.1	785.1	766.3	754.2	744.8
57.5°	723.3	722.0	705.9	689.8	685.8
60°	661.6	656.2	641.5	628.1	618.7
62.5°	597.2	593.2	581.1	566.3	559.6
65°	532.8	530.1	515.3	503.2	497.9
67.5°	469.7	464.3	453.6	442.9	440.2
70°	410.7	403.9	391.9	383.8	378.4
72.5°	346.2	342.2	335.5	326.1	320.7
75°	283.2	280.5	273.8	269.7	264.4
77.5°	224.1	222.8	218.7	216.1	212.0
80°	169.1	169.1	166.4	165.1	162.4
82.5°	120.8	118.1	118.1	115.4	115.4
85°	73.8	75.2	75.2	73.8	71.1
87.5°	36.2	36.2	34.9	34.9	32.2
90°	1.5	13.7	24.4	32.1	36.7
92.5°	29.0	15.3	24.4	32.1	33.6
95°	87.1	82.5	24.4	32.1	32.1
97.5°	163.4	172.6	27.5	30.5	32.1
100°	255.1	259.6	265.8	38.2	32.1
102.5°	348.2	354.3	357.4	360.4	232.2
105°	449.0	455.1	455.1	455.1	453.6
107.5°	552.9	552.9	555.9	557.5	551.4
110°	653.7	653.7	656.7	652.2	653.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	748.4	753.0	754.5	748.4	745.3
115°	843.1	850.7	852.2	846.1	837.0
117.5°	942.4	942.4	948.5	939.3	936.2
120°	1034.0	1032.5	1037.0	1034.0	1026.4
122.5°	1114.9	1122.6	1124.1	1121.0	1111.9
125°	1198.9	1209.6	1209.6	1203.5	1198.9
127.5°	1279.9	1287.5	1286.0	1282.9	1270.7
130°	1353.2	1360.8	1362.4	1357.8	1350.1
132.5°	1426.5	1435.7	1431.1	1431.1	1423.5
135°	1495.2	1504.4	1501.3	1498.3	1489.1
137.5°	1559.4	1568.6	1565.5	1565.5	1557.9
140°	1622.0	1625.1	1623.5	1626.6	1617.4
142.5°	1678.5	1680.0	1683.1	1683.1	1673.9
145°	1733.5	1736.6	1736.6	1738.1	1728.9
147.5°	1782.4	1782.4	1783.9	1785.4	1774.7
150°	1828.2	1825.1	1828.2	1831.2	1819.0
152.5°	1872.5	1864.8	1867.9	1871.0	1860.3
155°	1909.1	1900.0	1903.0	1907.6	1895.4
157.5°	1938.2	1933.6	1933.6	1938.2	1925.9
160°	1968.7	1959.5	1961.1	1967.2	1955.0
162.5°	1993.1	1984.0	1985.5	1994.7	1980.9
165°	2014.5	2005.4	2006.9	2016.1	2003.8
167.5°	2031.3	2022.2	2023.7	2034.4	2020.6
170°	2045.1	2034.4	2035.9	2048.1	2034.4
172.5°	2054.2	2043.5	2046.6	2057.3	2043.5
175°	2060.3	2051.2	2052.7	2064.9	2051.2
177.5°	2064.9	2055.8	2057.3	2068.0	2055.8
180°	2060.3	2060.3	2060.3	2060.3	2060.3

(END OF REPORT)