

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: P1035007

Luminaire Tested: S125DIW-B1090D1560UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035007
REPORT IS A COMBINATION OF REPORTS P1002888 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-F1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

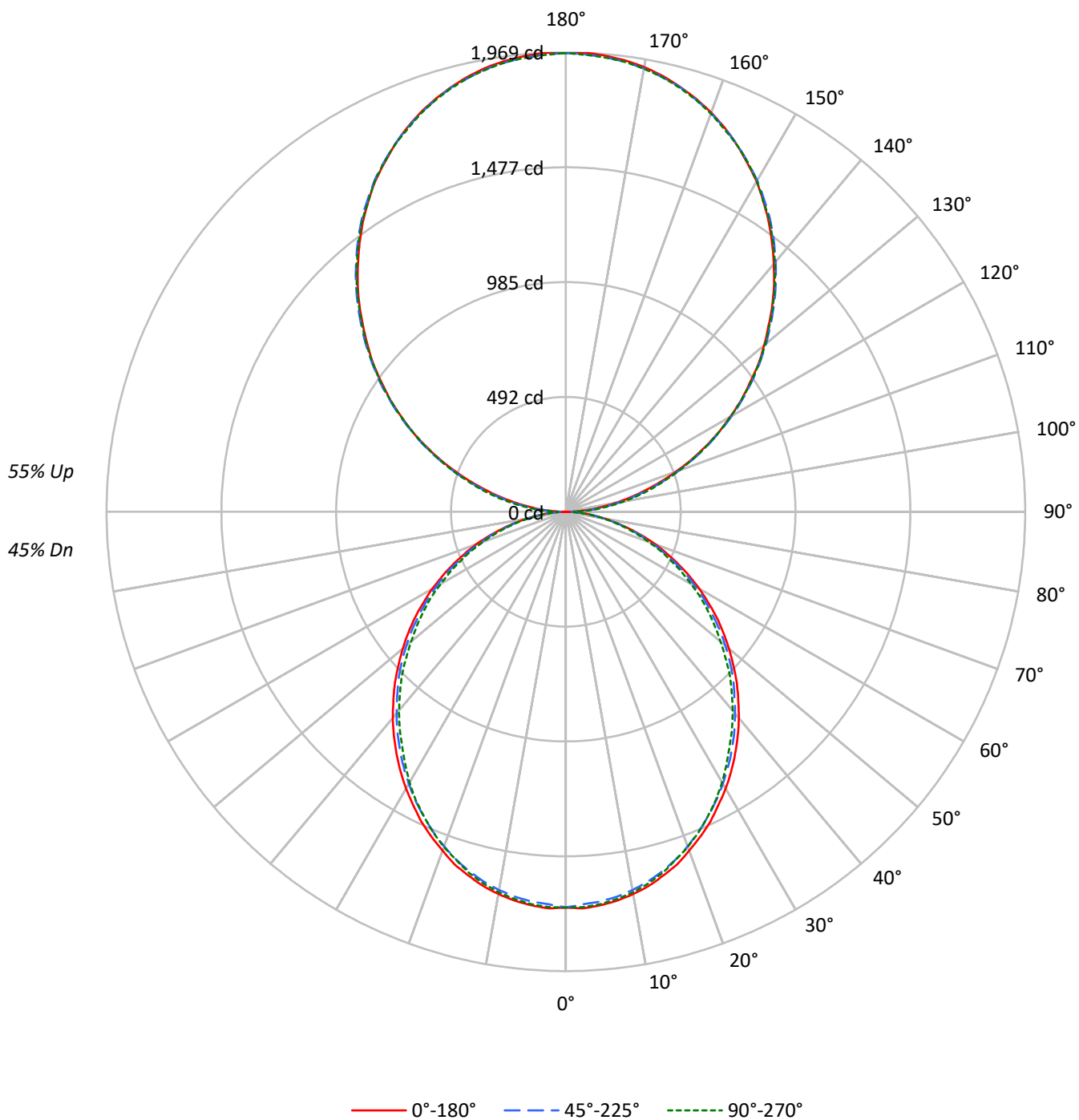
Lumens per Lamp: N/A
Luminaire Lumens: 9906.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	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	80	74	69	80	74	69	64	62	58	54	50	47	45	40	38	36
3	80	71	63	58	73	65	59	54	54	50	46	44	41	38	35	33	31
4	73	63	55	49	67	58	51	45	48	43	39	39	36	33	31	29	27
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23
6	62	50	42	36	56	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	48	38	31	26	32	27	23	27	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	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°	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	1.6
10°-20°	452.1	4.6
20°-30°	667.5	6.7
30°-40°	778.8	7.9
40°-50°	782.2	7.9
50°-60°	686.6	6.9
60°-70°	511.4	5.2
70°-80°	292.1	2.9
80°-90°	87.4	0.9
90°-100°	130.8	1.3
100°-110°	388.4	3.9
110°-120°	658.8	6.7
120°-130°	867.3	8.8
130°-140°	971.8	9.8
140°-150°	952.6	9.6
150°-160°	800.2	8.1
160°-170°	531.9	5.4
170°-180°	186.1	1.9
0°-30°	1279.7	12.9
0°-40°	2058.4	20.8
0°-60°	3527.2	35.6
0°-90°	4418.1	44.6
90°-120°	1178.0	11.9
90°-150°	3969.7	40.1
90°-180°	5488.0	55.4
0°-180°	9906.0	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	12
95°	100	102	118	128	132	104
105°	349	356	366	375	380	372
115°	660	666	669	667	666	652
125°	962	972	973	970	969	862
135°	1252	1261	1262	1262	1256	965
145°	1516	1523	1527	1527	1523	948
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	

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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	13.8	24.5	32.1	36.7
92.5°	45.9	53.6	67.3	78.0	81.1
95°	99.5	102.5	117.8	128.5	131.6
97.5°	153.0	154.6	176.0	185.2	186.7
100°	214.2	214.2	234.1	247.9	251.0
102.5°	280.0	287.7	295.3	310.6	315.2
105°	348.9	356.5	365.7	374.9	379.5
107.5°	423.9	431.5	439.2	443.8	443.8
110°	501.9	509.6	514.2	518.8	517.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	581.5	584.6	590.7	592.2	589.1
115°	659.5	665.7	668.7	667.2	665.7
117.5°	739.1	740.6	743.7	745.2	739.1
120°	812.6	820.2	821.7	821.7	815.6
122.5°	892.1	893.7	898.2	896.7	892.1
125°	962.5	971.7	973.2	970.2	968.6
127.5°	1040.6	1045.2	1046.7	1045.2	1042.1
130°	1109.4	1117.1	1120.1	1118.6	1115.5
132.5°	1178.3	1192.1	1190.5	1189.0	1184.4
135°	1251.7	1260.9	1262.4	1262.4	1256.3
137.5°	1320.6	1329.8	1332.8	1334.4	1326.7
140°	1386.4	1394.0	1398.6	1401.7	1394.0
142.5°	1452.2	1458.3	1464.4	1466.0	1458.3
145°	1516.5	1522.6	1527.2	1527.2	1522.6
147.5°	1576.1	1580.7	1583.8	1588.4	1576.1
150°	1635.8	1634.3	1640.4	1640.4	1637.4
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)