

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: P1035163

Luminaire Tested: S125DIW-B1270D1560UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035163
REPORT IS A COMBINATION OF REPORTS P1003232 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1560UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

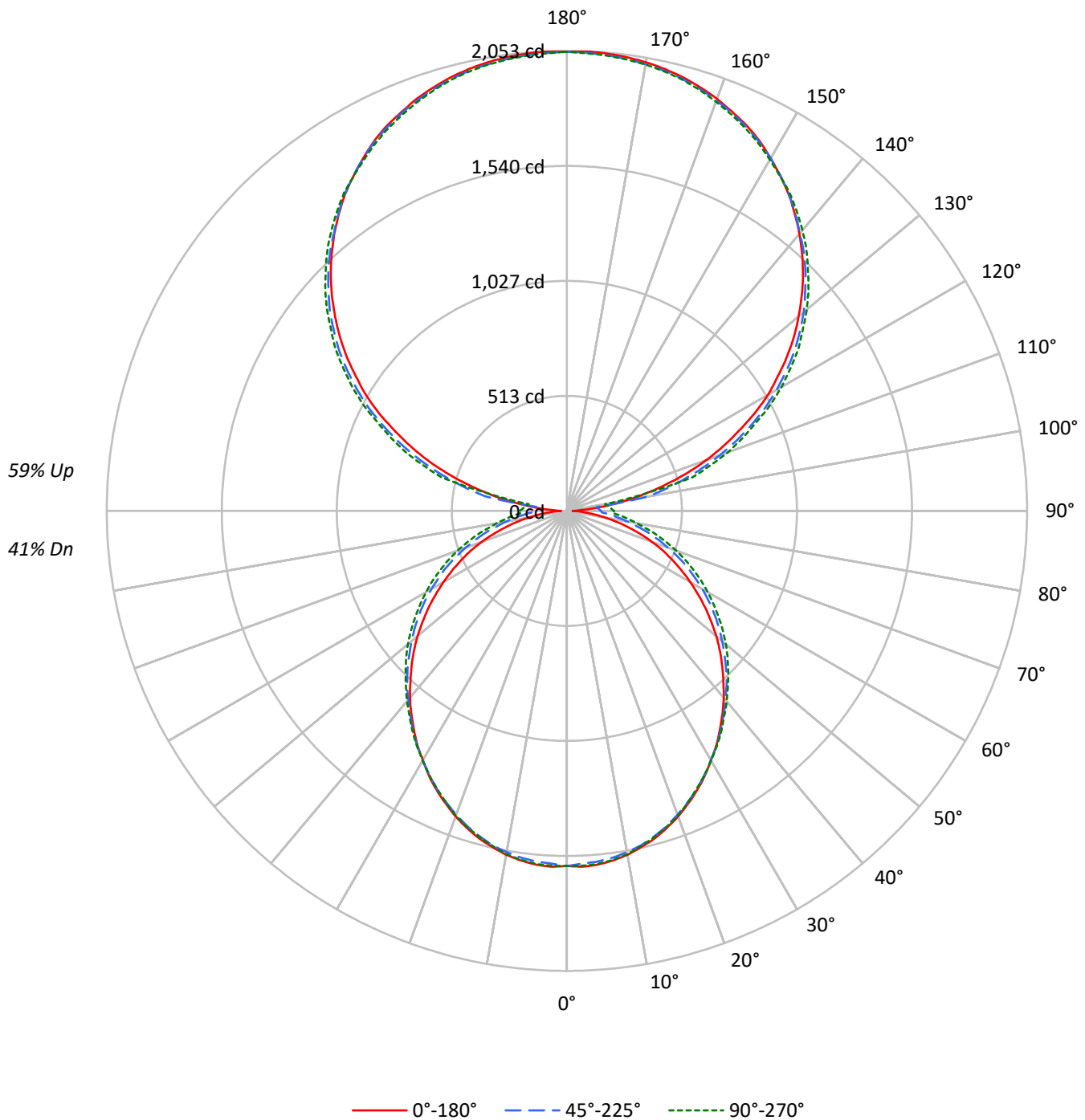
Lumens per Lamp: N/A
Luminaire Lumens: 11205.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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					0
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	63	63	63	48	48	48	41		
1	95	91	87	83	87	83	79	76	68	65	63	54	52	51	41	40	39	33		
2	86	79	73	67	78	72	67	62	59	55	52	47	44	42	36	34	33	28		
3	79	69	62	56	71	63	57	51	52	47	43	41	38	35	32	29	27	23		
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	24	20		
5	66	54	46	40	60	50	42	37	41	36	31	33	29	26	25	23	20	17		
6	61	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18	15		
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16	13		
8	52	40	32	26	47	36	29	25	30	25	21	25	21	18	19	16	14	12		
9	48	36	29	23	44	33	26	22	28	22	19	23	19	16	18	15	13	10		
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	14	12	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10153	10153	10153
5°	10170	9940	9965
10°	10093	9737	9710
15°	9970	9502	9397
20°	9805	9217	9085
25°	9608	8914	8709
30°	9370	8583	8367
35°	9148	8279	8051
40°	8922	7957	7733
45°	8666	7679	7447
50°	8421	7377	7189
55°	8127	7089	6890
60°	7804	6761	6582
65°	7466	6414	6236
70°	7080	5952	5876
75°	6473	5494	5437
80°	5675	4937	4951
85°	4883	4493	4696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8666 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.3
10°-20°	425.7	3.8
20°-30°	633.0	5.6
30°-40°	749.7	6.7
40°-50°	775.0	6.9
50°-60°	714.0	6.4
60°-70°	577.2	5.2
70°-80°	386.2	3.4
80°-90°	202.7	1.8
90°-100°	182.0	1.6
100°-110°	545.2	4.9
110°-120°	888.1	7.9
120°-130°	1100.1	9.8
130°-140°	1163.2	10.4
140°-150°	1081.5	9.7
150°-160°	872.6	7.8
160°-170°	564.3	5.0
170°-180°	194.6	1.7
0°-30°	1208.7	10.8
0°-40°	1958.3	17.5
0°-60°	3447.3	30.8
0°-90°	4613.4	41.2
90°-120°	1615.3	14.4
90°-150°	4960.1	44.3
90°-180°	6592.0	58.8
0°-180°	11205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1585	1582	1571	1583	1582	150
15°	1513	1515	1504	1513	1507	426
25°	1375	1380	1370	1376	1369	633
35°	1190	1201	1196	1201	1201	745
45°	980	997	1005	1016	1018	756
55°	754	778	803	820	826	673
65°	519	555	592	615	621	515
75°	286	326	376	407	415	303
85°	85	137	191	225	238	89
90°	26	88	152	195	210	22
95°	107	143	138	180	190	122
105°	460	491	538	569	578	488
115°	848	866	908	930	930	840
125°	1198	1208	1238	1257	1260	1070
135°	1490	1497	1505	1522	1521	1149
145°	1725	1727	1727	1736	1733	1079
155°	1898	1889	1892	1897	1885	875
165°	2003	1994	1996	2005	1992	566
175°	2049	2040	2041	2053	2040	195
180°	2049	2049	2049	2049	2049	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.7	1584.7	1584.7	1584.7	1584.7
2.5°	1589.3	1586.2	1575.3	1586.2	1584.7
5°	1584.7	1581.6	1570.7	1583.1	1581.6
7.5°	1573.8	1572.2	1561.4	1572.2	1570.7
10°	1558.2	1558.2	1545.8	1556.7	1555.1
12.5°	1536.5	1538.1	1528.7	1536.5	1531.8
15°	1513.2	1514.7	1503.9	1513.2	1507.0
17.5°	1483.7	1486.8	1475.9	1483.7	1479.0
20°	1451.1	1454.2	1443.3	1447.9	1447.9
22.5°	1413.8	1420.0	1407.6	1413.8	1409.1
25°	1374.9	1379.6	1370.3	1376.5	1368.7
27.5°	1333.0	1339.2	1328.3	1333.0	1329.9
30°	1284.8	1294.1	1284.8	1287.9	1286.4
32.5°	1241.3	1249.1	1242.9	1246.0	1244.4
35°	1190.0	1200.9	1196.3	1200.9	1200.9
37.5°	1140.3	1149.7	1148.1	1154.3	1152.8
40°	1089.1	1101.5	1099.9	1106.2	1109.3
42.5°	1033.1	1050.2	1054.9	1062.7	1062.7
45°	980.3	997.4	1005.2	1016.0	1017.6
47.5°	925.9	941.5	953.9	969.4	972.5
50°	870.0	887.1	904.2	921.3	925.9
52.5°	811.0	832.7	854.5	873.1	876.2
55°	753.5	778.3	803.2	820.3	826.5
57.5°	694.5	724.0	751.9	770.6	775.2
60°	635.4	666.5	697.6	720.9	725.5
62.5°	577.9	609.0	643.2	669.6	675.8
65°	518.9	554.6	591.9	615.2	621.4
67.5°	464.5	498.7	536.0	564.0	571.7
70°	403.9	439.7	480.1	509.6	518.9
72.5°	344.9	382.2	427.2	459.9	466.1
75°	285.9	326.3	376.0	407.0	414.8
77.5°	228.4	275.0	321.6	355.8	362.0
80°	175.6	222.2	275.0	309.2	315.4
82.5°	127.4	177.1	231.5	264.1	276.5
85°	85.4	136.7	191.1	225.3	237.7
87.5°	54.4	104.1	156.9	192.6	203.5
90°	26.4	88.3	151.7	195.0	210.4
92.5°	50.7	82.0	145.5	187.3	199.6
95°	106.8	142.6	137.7	179.5	190.4
97.5°	181.1	227.5	134.5	170.2	182.6
100°	270.7	307.9	363.6	170.1	173.3
102.5°	361.7	397.4	448.6	482.7	364.4
105°	460.5	491.4	538.0	569.1	578.4
107.5°	562.1	583.9	632.0	664.6	667.8
110°	660.9	679.5	726.0	751.0	763.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	755.0	773.6	817.0	838.9	846.7
115°	847.6	866.1	908.0	929.9	930.1
117.5°	944.8	952.5	997.5	1014.8	1022.6
120°	1035.9	1039.0	1079.3	1102.7	1104.4
122.5°	1114.8	1124.0	1159.6	1181.5	1181.7
125°	1198.3	1207.5	1238.5	1257.3	1260.5
127.5°	1277.3	1283.3	1308.2	1328.4	1325.6
130°	1350.2	1356.2	1379.5	1396.7	1396.9
132.5°	1421.5	1430.6	1441.6	1463.4	1462.0
135°	1489.8	1497.4	1505.2	1522.4	1521.1
137.5°	1553.6	1561.2	1564.4	1583.0	1581.6
140°	1614.4	1617.4	1617.4	1637.5	1634.6
142.5°	1670.6	1670.5	1673.5	1687.5	1684.6
145°	1725.2	1726.7	1726.7	1736.0	1733.1
147.5°	1772.2	1772.2	1773.8	1778.4	1770.8
150°	1817.8	1814.8	1817.8	1820.8	1810.3
152.5°	1861.8	1854.2	1857.3	1860.3	1849.7
155°	1898.3	1889.2	1892.2	1896.8	1884.6
157.5°	1927.1	1922.6	1922.6	1927.1	1915.0
160°	1957.5	1948.4	1949.9	1956.0	1943.8
162.5°	1981.8	1972.7	1974.2	1983.3	1969.7
165°	2003.1	1994.0	1995.5	2004.6	1992.4
167.5°	2019.8	2010.7	2012.2	2022.8	2009.1
170°	2033.4	2022.8	2024.3	2036.5	2022.8
172.5°	2042.6	2031.9	2035.0	2045.6	2031.9
175°	2048.6	2039.5	2041.0	2053.2	2039.5
177.5°	2053.2	2044.1	2045.6	2056.2	2044.1
180°	2048.6	2048.6	2048.6	2048.6	2048.6

(END OF REPORT)