

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: P1035164

Luminaire Tested: S125DIW-B1270D1560UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035164
REPORT IS A COMBINATION OF REPORTS P1003233 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-D1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

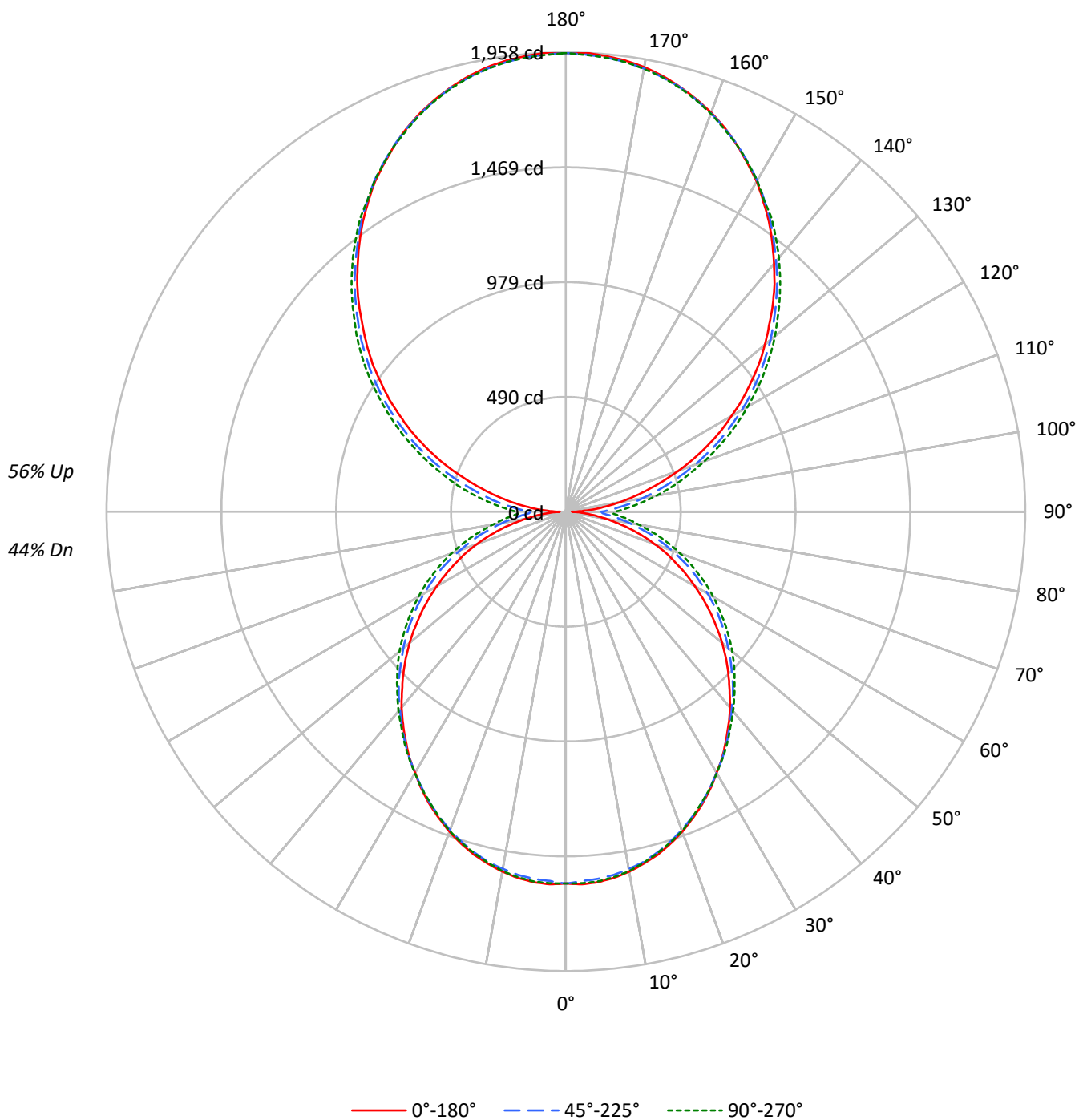
Lumens per Lamp: N/A
Luminaire Lumens: 10369.1 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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	1.4
10°-20°	425.7	4.1
20°-30°	633.0	6.1
30°-40°	749.7	7.2
40°-50°	775.0	7.5
50°-60°	714.0	6.9
60°-70°	577.2	5.6
70°-80°	386.2	3.7
80°-90°	202.7	2.0
90°-100°	242.5	2.3
100°-110°	469.1	4.5
110°-120°	710.6	6.9
120°-130°	893.8	8.6
130°-140°	980.1	9.5
140°-150°	950.0	9.2
150°-160°	795.6	7.7
160°-170°	528.9	5.1
170°-180°	185.1	1.8
0°-30°	1208.7	11.7
0°-40°	1958.3	18.9
0°-60°	3447.3	33.2
0°-90°	4613.4	44.5
90°-120°	1422.2	13.7
90°-150°	4246.1	40.9
90°-180°	5756.0	55.5
0°-180°	10369.1	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	24
95°	119	162	231	275	289	119
105°	361	393	449	489	505	385
115°	665	682	726	752	760	658
125°	963	971	1003	1025	1032	863
135°	1248	1255	1268	1288	1290	962
145°	1510	1514	1519	1526	1528	943
155°	1726	1726	1727	1733	1726	795
165°	1876	1873	1875	1881	1872	529
175°	1951	1945	1945	1954	1943	185
180°	1955	1955	1955	1955	1955	

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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	195.1	210.5
92.5°	67.4	120.1	188.2	233.0	246.8
95°	119.1	162.5	230.6	275.4	289.4
97.5°	170.8	209.6	282.2	323.9	336.3
100°	230.1	262.7	332.2	378.6	390.9
102.5°	294.0	331.2	386.9	433.2	447.0
105°	360.9	393.3	449.1	489.3	504.8
107.5°	433.9	463.3	515.9	551.6	560.9
110°	510.0	536.2	584.3	618.3	627.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	589.1	606.2	654.1	683.7	691.4
115°	665.1	682.1	725.5	752.0	759.8
117.5°	742.7	752.0	793.9	821.8	826.6
120°	815.8	828.0	865.3	891.7	894.9
122.5°	893.3	896.4	935.1	958.5	963.2
125°	963.3	970.9	1003.4	1025.3	1031.6
127.5°	1039.4	1042.4	1070.3	1092.1	1098.3
130°	1107.9	1113.9	1138.7	1158.9	1163.6
132.5°	1174.7	1188.4	1202.4	1222.7	1224.3
135°	1247.8	1255.4	1267.7	1287.9	1289.6
137.5°	1316.2	1323.9	1333.1	1353.2	1351.8
140°	1380.2	1387.8	1393.8	1414.0	1412.6
142.5°	1445.6	1450.1	1456.2	1471.7	1470.3
145°	1509.5	1514.0	1518.6	1526.4	1528.0
147.5°	1567.2	1571.8	1574.9	1582.5	1573.4
150°	1626.6	1625.1	1631.2	1631.2	1629.7
152.5°	1675.3	1678.3	1679.8	1684.4	1678.3
155°	1725.5	1725.5	1727.0	1733.1	1725.5
157.5°	1771.1	1768.1	1769.6	1775.7	1765.1
160°	1810.7	1806.1	1807.7	1813.7	1806.1
162.5°	1845.7	1842.7	1842.7	1850.3	1841.1
165°	1876.1	1873.1	1874.6	1880.7	1871.6
167.5°	1903.5	1897.4	1897.4	1906.6	1897.4
170°	1924.8	1918.7	1918.7	1927.9	1917.2
172.5°	1940.0	1934.0	1934.0	1943.1	1934.0
175°	1950.7	1944.6	1944.6	1953.7	1943.1
177.5°	1958.3	1952.2	1950.7	1959.8	1949.2
180°	1955.3	1955.3	1955.3	1955.3	1955.3

(END OF REPORT)