

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: P1035146

Luminaire Tested: S125DIW-B1270D1560UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035146
REPORT IS A COMBINATION OF REPORTS P1003185 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1560UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

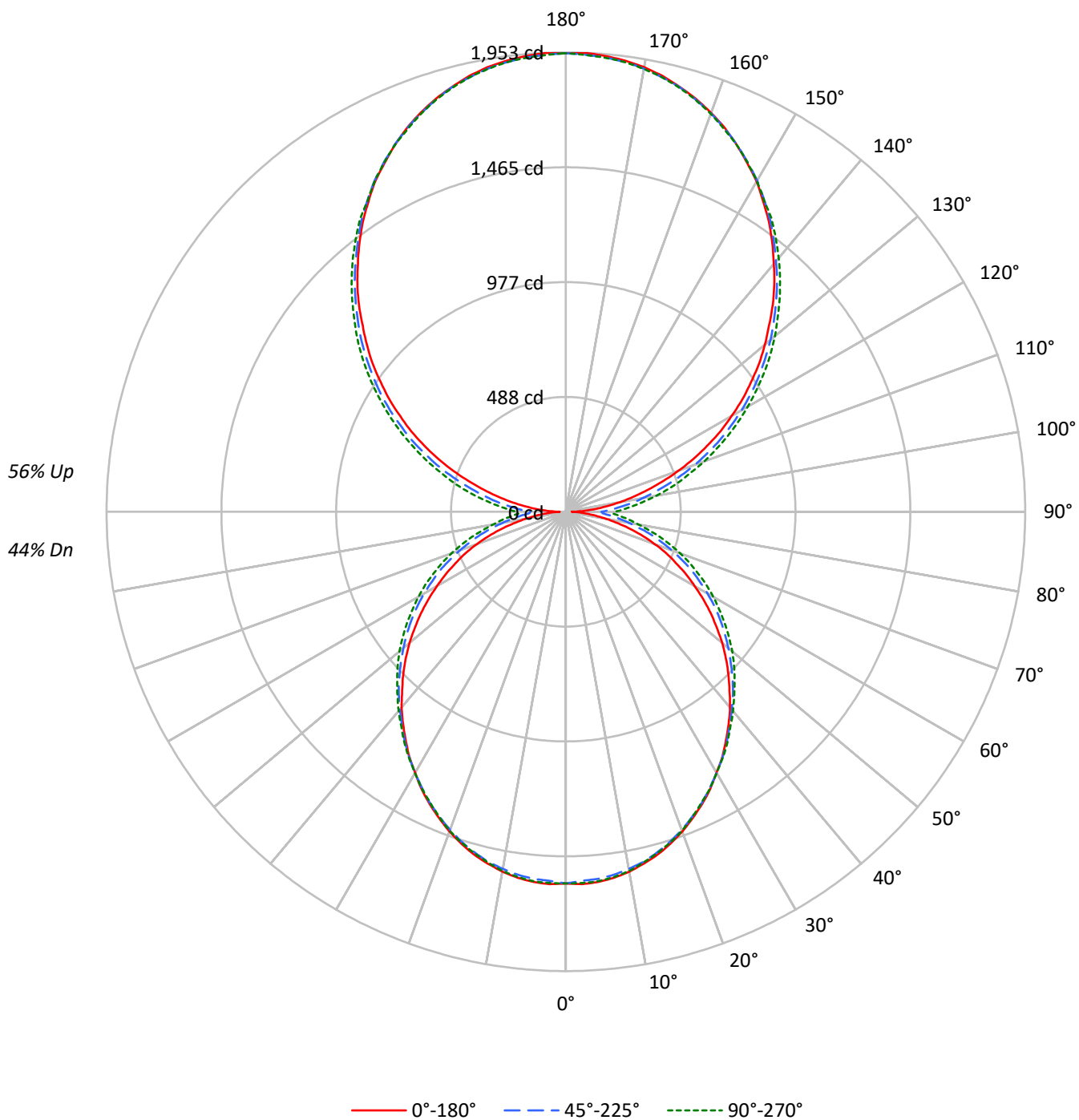
Lumens per Lamp: N/A
Luminaire Lumens: 10339.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	29	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°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.4
10°-20°	424.5	4.1
20°-30°	631.2	6.1
30°-40°	747.5	7.2
40°-50°	772.8	7.5
50°-60°	711.9	6.9
60°-70°	575.5	5.6
70°-80°	385.1	3.7
80°-90°	202.1	2.0
90°-100°	241.8	2.3
100°-110°	467.8	4.5
110°-120°	708.5	6.9
120°-130°	891.2	8.6
130°-140°	977.2	9.5
140°-150°	947.1	9.2
150°-160°	793.3	7.7
160°-170°	527.3	5.1
170°-180°	184.5	1.8
0°-30°	1205.2	11.7
0°-40°	1952.7	18.9
0°-60°	3437.5	33.2
0°-90°	4600.2	44.5
90°-120°	1418.0	13.7
90°-150°	4233.6	40.9
90°-180°	5739.0	55.5
0°-180°	10339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	26	88	151	195	210	24
95°	119	162	230	275	288	119
105°	360	392	448	488	503	384
115°	663	680	723	750	758	656
125°	960	968	1000	1022	1028	860
135°	1244	1252	1264	1284	1286	959
145°	1505	1510	1514	1522	1524	941
155°	1720	1720	1722	1728	1720	792
165°	1871	1868	1869	1875	1866	528
175°	1945	1939	1939	1948	1937	185
180°	1950	1950	1950	1950	1950	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	26.3	88.1	151.3	194.6	209.9
92.5°	67.2	119.7	187.6	232.3	246.2
95°	118.7	162.0	229.9	274.6	288.5
97.5°	170.3	209.0	281.4	323.0	335.4
100°	229.4	262.0	331.2	377.5	389.8
102.5°	293.1	330.1	385.7	431.9	445.7
105°	359.8	392.2	447.8	487.9	503.3
107.5°	432.6	461.9	514.4	550.0	559.3
110°	508.4	534.6	582.6	616.5	625.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	587.3	604.3	652.2	681.6	689.4
115°	663.2	680.1	723.4	749.8	757.6
117.5°	740.5	749.8	791.5	819.4	824.2
120°	813.3	825.6	862.7	889.1	892.3
122.5°	890.7	893.7	932.4	955.6	960.4
125°	960.5	968.0	1000.5	1022.3	1028.5
127.5°	1036.3	1039.3	1067.1	1088.9	1095.2
130°	1104.5	1110.6	1135.3	1155.5	1160.2
132.5°	1171.3	1185.0	1198.9	1219.1	1220.8
135°	1244.1	1251.6	1264.0	1284.1	1285.9
137.5°	1312.4	1319.9	1329.1	1349.2	1347.9
140°	1376.0	1383.6	1389.8	1409.8	1408.4
142.5°	1441.3	1445.8	1451.9	1467.3	1465.9
145°	1505.0	1509.6	1514.1	1521.8	1523.5
147.5°	1562.7	1567.2	1570.2	1577.9	1568.9
150°	1621.8	1620.3	1626.4	1626.4	1624.8
152.5°	1670.4	1673.4	1674.9	1679.5	1673.4
155°	1720.4	1720.4	1722.0	1728.0	1720.4
157.5°	1766.0	1762.9	1764.4	1770.5	1759.9
160°	1805.4	1800.8	1802.4	1808.4	1800.8
162.5°	1840.3	1837.3	1837.3	1844.8	1835.7
165°	1870.6	1867.6	1869.1	1875.2	1866.1
167.5°	1897.9	1891.9	1891.9	1901.0	1891.9
170°	1919.2	1913.1	1913.1	1922.2	1911.6
172.5°	1934.4	1928.3	1928.3	1937.4	1928.3
175°	1945.0	1938.9	1938.9	1948.0	1937.4
177.5°	1952.6	1946.5	1945.0	1954.1	1943.5
180°	1949.5	1949.5	1949.5	1949.5	1949.5

(END OF REPORT)