

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: P1035120

Luminaire Tested: S125DIW-B1270D1340UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035120
REPORT IS A COMBINATION OF REPORTS P1003121 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1340UB27-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

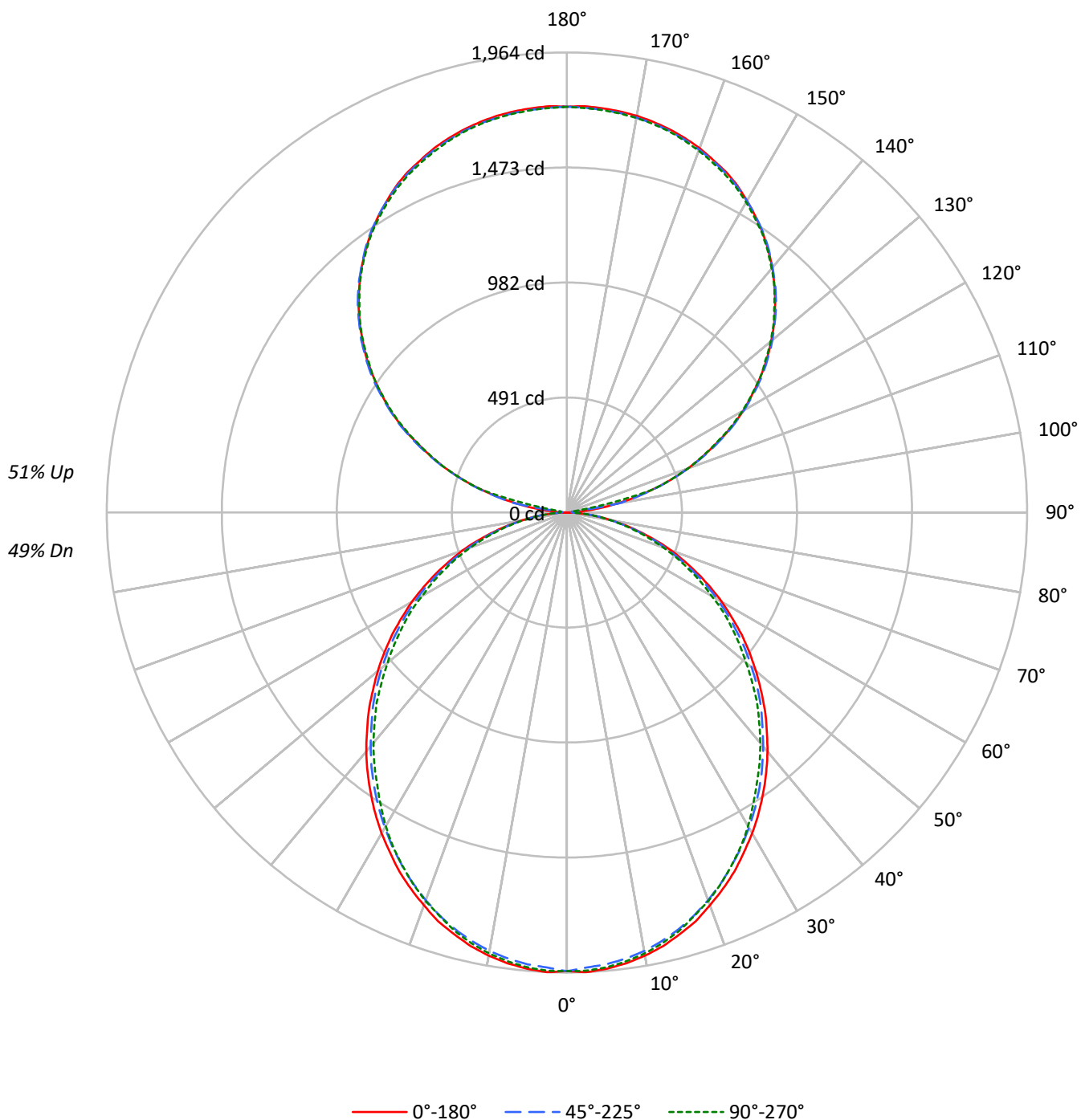
Lumens per Lamp: N/A
Luminaire Lumens: 10420.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	49	48	46
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39
3	81	71	64	58	74	66	60	54	56	51	47	47	43	40	38	35	33
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	34	31	29
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25
6	63	50	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	19
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12544	12544	12544
5°	12545	12253	12277
10°	12442	11972	11935
15°	12278	11637	11532
20°	12057	11247	11070
25°	11820	10822	10576
30°	11534	10379	10055
35°	11228	9915	9471
40°	10913	9424	8952
45°	10571	8946	8400
50°	10195	8404	7757
55°	9823	7806	7166
60°	9380	7176	6479
65°	8848	6446	5768
70°	8309	5607	4947
75°	7400	4617	4000
80°	6308	3449	2942
85°	4871	2039	1622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	1.8
10°-20°	521.9	5.0
20°-30°	770.4	7.4
30°-40°	898.9	8.6
40°-50°	902.8	8.7
50°-60°	792.5	7.6
60°-70°	590.3	5.7
70°-80°	337.1	3.2
80°-90°	99.9	1.0
90°-100°	58.8	0.6
100°-110°	391.0	3.8
110°-120°	704.1	6.8
120°-130°	903.7	8.7
130°-140°	972.0	9.3
140°-150°	912.2	8.8
150°-160°	737.9	7.1
160°-170°	477.2	4.6
170°-180°	164.6	1.6
0°-30°	1477.1	14.2
0°-40°	2376.0	22.8
0°-60°	4071.3	39.1
0°-90°	5098.6	48.9
90°-120°	1153.8	11.1
90°-150°	3941.7	37.8
90°-180°	5321.0	51.1
0°-180°	10420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1955	1952	1936	1950	1949	186
15°	1863	1859	1842	1850	1850	525
25°	1692	1684	1664	1667	1662	778
35°	1461	1454	1433	1425	1413	914
45°	1196	1190	1171	1152	1148	921
55°	911	906	884	870	860	813
65°	615	612	595	581	575	610
75°	327	324	316	311	305	348
85°	85	87	87	85	82	93
90°	1	12	20	27	31	9
95°	73	69	20	27	27	90
105°	378	383	383	383	381	400
115°	709	715	717	711	704	703
125°	1008	1017	1017	1012	1008	900
135°	1257	1265	1262	1260	1252	969
145°	1458	1460	1460	1461	1454	912
155°	1605	1598	1600	1604	1594	740
165°	1694	1686	1687	1695	1685	478
175°	1732	1725	1726	1736	1725	165
180°	1732	1732	1732	1732	1732	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.9	1957.9	1957.9	1957.9	1957.9
2.5°	1964.1	1959.5	1944.0	1959.5	1957.9
5°	1954.8	1951.7	1936.2	1950.2	1948.6
7.5°	1940.9	1937.8	1920.8	1934.7	1933.1
10°	1920.8	1917.7	1900.6	1913.0	1911.5
12.5°	1896.0	1889.8	1874.3	1883.6	1883.6
15°	1863.4	1858.8	1841.8	1849.5	1849.5
17.5°	1829.4	1821.6	1804.6	1813.9	1806.1
20°	1784.4	1781.3	1761.2	1772.0	1764.3
22.5°	1739.5	1733.3	1714.7	1720.9	1716.3
25°	1691.5	1683.8	1663.6	1666.7	1662.1
27.5°	1635.7	1631.1	1611.0	1612.5	1607.9
30°	1581.5	1576.9	1553.6	1550.5	1545.9
32.5°	1522.7	1514.9	1494.8	1488.6	1479.3
35°	1460.7	1454.5	1432.8	1425.1	1412.7
37.5°	1397.2	1389.4	1369.3	1358.5	1350.7
40°	1332.1	1324.4	1302.7	1288.8	1284.1
42.5°	1262.4	1256.2	1234.5	1222.2	1214.4
45°	1195.8	1189.6	1171.0	1152.5	1147.8
47.5°	1123.0	1124.6	1101.3	1082.7	1071.9
50°	1053.3	1048.7	1030.1	1009.9	999.1
52.5°	982.1	979.0	958.8	941.8	929.4
55°	910.8	906.2	884.5	870.5	859.7
57.5°	834.9	833.4	814.8	796.2	791.5
60°	763.7	757.5	740.4	724.9	714.1
62.5°	689.3	684.7	670.7	653.7	645.9
65°	614.9	611.9	594.8	580.9	574.7
67.5°	542.1	536.0	523.6	511.2	508.1
70°	474.0	466.2	452.3	443.0	436.8
72.5°	399.6	395.0	387.2	376.4	370.2
75°	326.8	323.7	316.0	311.3	305.2
77.5°	258.7	257.1	252.5	249.4	244.7
80°	195.2	195.2	192.1	190.5	187.4
82.5°	139.4	136.3	136.3	133.2	133.2
85°	85.2	86.7	86.7	85.2	82.1
87.5°	41.8	41.8	40.3	40.3	37.2
90°	1.3	11.6	20.5	27.0	30.8
92.5°	24.4	12.8	20.5	27.0	28.3
95°	73.2	69.3	20.5	27.0	27.0
97.5°	137.4	145.1	23.1	25.7	27.0
100°	214.5	218.3	223.4	32.1	27.0
102.5°	292.8	297.9	300.5	303.1	195.2
105°	377.5	382.7	382.7	382.7	381.4
107.5°	464.9	464.9	467.4	468.7	463.6
110°	549.6	549.6	552.2	548.3	549.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	629.2	633.1	634.4	629.2	626.7
115°	708.9	715.3	716.6	711.4	703.7
117.5°	792.3	792.3	797.5	789.8	787.2
120°	869.4	868.1	872.0	869.4	863.0
122.5°	937.4	943.9	945.2	942.6	934.9
125°	1008.1	1017.1	1017.1	1011.9	1008.1
127.5°	1076.1	1082.6	1081.3	1078.7	1068.4
130°	1137.8	1144.2	1145.5	1141.6	1135.2
132.5°	1199.4	1207.1	1203.3	1203.3	1196.9
135°	1257.2	1264.9	1262.3	1259.8	1252.1
137.5°	1311.1	1318.9	1316.3	1316.3	1309.9
140°	1363.8	1366.4	1365.1	1367.6	1359.9
142.5°	1411.3	1412.6	1415.2	1415.2	1407.5
145°	1457.5	1460.1	1460.1	1461.4	1453.7
147.5°	1498.6	1498.6	1499.9	1501.2	1492.2
150°	1537.2	1534.6	1537.2	1539.7	1529.5
152.5°	1574.4	1568.0	1570.5	1573.1	1564.1
155°	1605.2	1597.5	1600.1	1603.9	1593.7
157.5°	1629.6	1625.8	1625.8	1629.6	1619.3
160°	1655.3	1647.6	1648.9	1654.0	1643.7
162.5°	1675.9	1668.1	1669.4	1677.1	1665.6
165°	1693.8	1686.1	1687.4	1695.1	1684.8
167.5°	1708.0	1700.3	1701.5	1710.5	1699.0
170°	1719.5	1710.5	1711.8	1722.1	1710.5
172.5°	1727.2	1718.2	1720.8	1729.8	1718.2
175°	1732.4	1724.7	1725.9	1736.2	1724.7
177.5°	1736.2	1728.5	1729.8	1738.8	1728.5
180°	1732.4	1732.4	1732.4	1732.4	1732.4

(END OF REPORT)