

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: P1035136

Luminaire Tested: S125DIW-B1270D1340UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035136
REPORT IS A COMBINATION OF REPORTS P1003169 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1340UB40-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

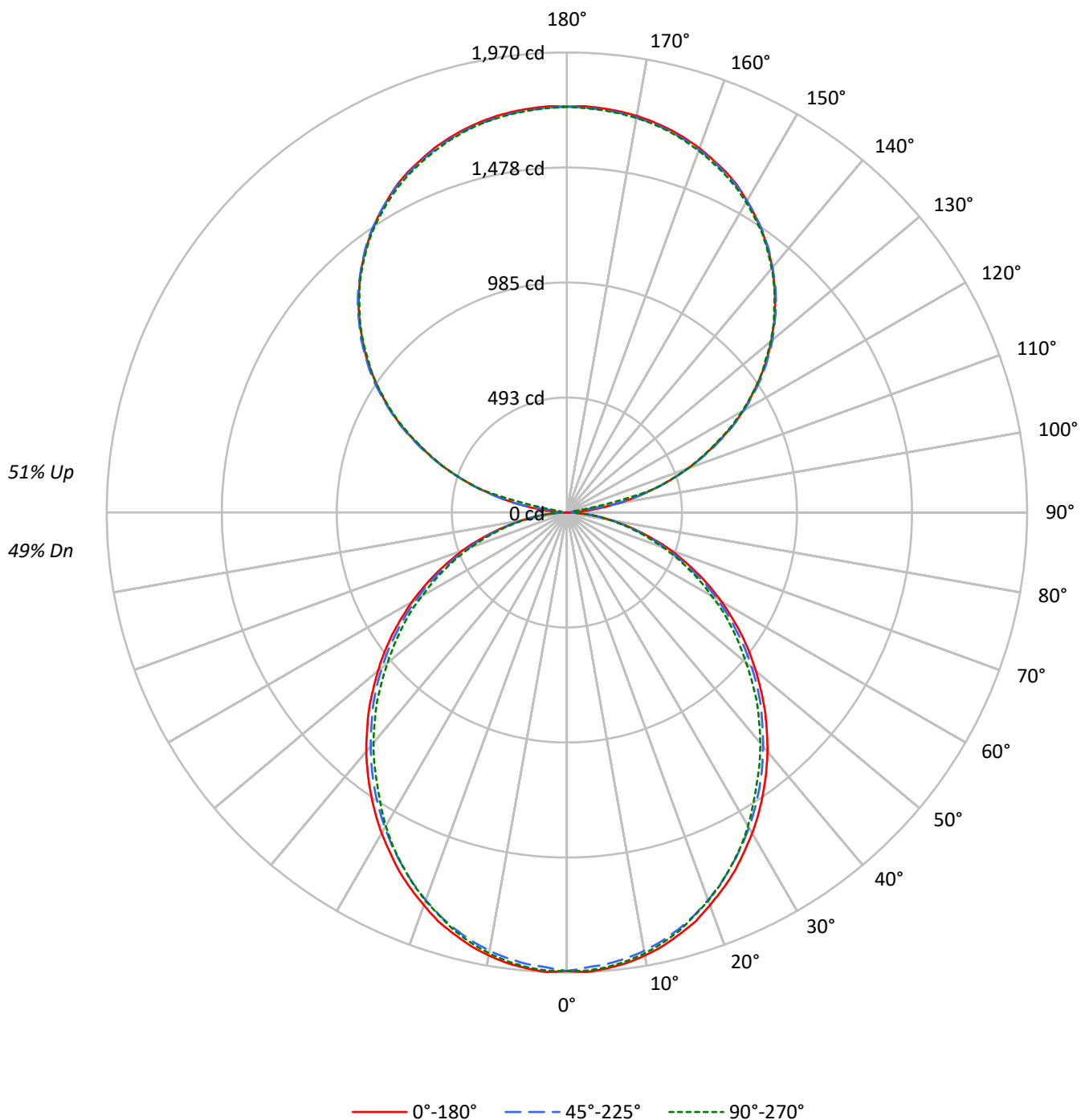
Lumens per Lamp: N/A
Luminaire Lumens: 10451.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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°	12582	12582	12582
5°	12582	12289	12313
10°	12478	12008	11970
15°	12314	11671	11566
20°	12093	11280	11103
25°	11855	10854	10607
30°	11568	10410	10084
35°	11262	9944	9498
40°	10945	9452	8978
45°	10602	8973	8425
50°	10225	8429	7780
55°	9852	7829	7187
60°	9407	7197	6498
65°	8875	6465	5785
70°	8333	5623	4961
75°	7422	4630	4011
80°	6324	3458	2951
85°	4883	2046	1626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10602 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	1.8
10°-20°	523.4	5.0
20°-30°	772.7	7.4
30°-40°	901.5	8.6
40°-50°	905.5	8.7
50°-60°	794.8	7.6
60°-70°	592.0	5.7
70°-80°	338.1	3.2
80°-90°	100.2	1.0
90°-100°	59.0	0.6
100°-110°	392.1	3.8
110°-120°	706.2	6.8
120°-130°	906.4	8.7
130°-140°	974.9	9.3
140°-150°	915.0	8.8
150°-160°	740.1	7.1
160°-170°	478.7	4.6
170°-180°	165.1	1.6
0°-30°	1481.4	14.2
0°-40°	2383.0	22.8
0°-60°	4083.2	39.1
0°-90°	5113.6	48.9
90°-120°	1157.3	11.1
90°-150°	3953.6	37.8
90°-180°	5337.0	51.1
0°-180°	10451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1961	1958	1942	1956	1954	186
15°	1869	1864	1847	1855	1855	527
25°	1696	1689	1668	1672	1667	781
35°	1465	1459	1437	1429	1417	916
45°	1199	1193	1174	1156	1151	924
55°	914	909	887	873	862	815
65°	617	614	597	583	576	612
75°	328	325	317	312	306	349
85°	85	87	87	85	82	94
90°	1	12	21	27	31	9
95°	73	70	21	27	27	90
105°	379	384	384	384	382	401
115°	711	717	719	714	706	705
125°	1011	1020	1020	1015	1011	903
135°	1261	1269	1266	1264	1256	972
145°	1462	1464	1464	1466	1458	914
155°	1610	1602	1605	1609	1598	742
165°	1699	1691	1692	1700	1690	480
175°	1738	1730	1731	1741	1730	165
180°	1738	1738	1738	1738	1738	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1969.9	1965.2	1949.7	1965.2	1963.7
5°	1960.6	1957.5	1941.9	1955.9	1954.4
7.5°	1946.6	1943.5	1926.4	1940.4	1938.8
10°	1926.4	1923.3	1906.2	1918.6	1917.1
12.5°	1901.5	1895.3	1879.8	1889.1	1889.1
15°	1868.9	1864.3	1847.2	1854.9	1854.9
17.5°	1834.7	1827.0	1809.9	1819.2	1811.4
20°	1789.7	1786.6	1766.4	1777.3	1769.5
22.5°	1744.6	1738.4	1719.8	1726.0	1721.3
25°	1696.5	1688.7	1668.5	1671.6	1667.0
27.5°	1640.6	1635.9	1615.7	1617.2	1612.6
30°	1586.2	1581.5	1558.2	1555.1	1550.4
32.5°	1527.1	1519.4	1499.2	1493.0	1483.6
35°	1465.0	1458.8	1437.0	1429.3	1416.8
37.5°	1401.3	1393.5	1373.3	1362.5	1354.7
40°	1336.1	1328.3	1306.5	1292.6	1287.9
42.5°	1266.1	1259.9	1238.2	1225.8	1218.0
45°	1199.3	1193.1	1174.5	1155.8	1151.2
47.5°	1126.3	1127.9	1104.6	1085.9	1075.1
50°	1056.4	1051.8	1033.1	1012.9	1002.0
52.5°	985.0	981.8	961.6	944.6	932.1
55°	913.5	908.8	887.1	873.1	862.2
57.5°	837.4	835.8	817.2	798.5	793.9
60°	765.9	759.7	742.6	727.1	716.2
62.5°	691.3	686.7	672.7	655.6	647.8
65°	616.8	613.7	596.6	582.6	576.4
67.5°	543.7	537.5	525.1	512.7	509.6
70°	475.4	467.6	453.6	444.3	438.1
72.5°	400.8	396.2	388.4	377.5	371.3
75°	327.8	324.7	316.9	312.3	306.0
77.5°	259.4	257.9	253.2	250.1	245.5
80°	195.7	195.7	192.6	191.1	188.0
82.5°	139.8	136.7	136.7	133.6	133.6
85°	85.4	87.0	87.0	85.4	82.3
87.5°	41.9	41.9	40.4	40.4	37.3
90°	1.3	11.6	20.6	27.0	30.9
92.5°	24.5	12.9	20.6	27.0	28.3
95°	73.4	69.6	20.6	27.0	27.0
97.5°	137.8	145.5	23.2	25.8	27.0
100°	215.1	219.0	224.1	32.2	27.0
102.5°	293.7	298.8	301.4	304.0	195.8
105°	378.7	383.8	383.8	383.8	382.5
107.5°	466.3	466.3	468.8	470.1	465.0
110°	551.3	551.3	553.9	550.0	551.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	631.1	635.0	636.3	631.1	628.6
115°	711.0	717.4	718.7	713.6	705.8
117.5°	794.7	794.7	799.9	792.1	789.6
120°	872.0	870.7	874.6	872.0	865.6
122.5°	940.3	946.7	948.0	945.4	937.7
125°	1011.1	1020.1	1020.1	1015.0	1011.1
127.5°	1079.4	1085.8	1084.5	1082.0	1071.6
130°	1141.2	1147.6	1148.9	1145.1	1138.6
132.5°	1203.0	1210.8	1206.9	1206.9	1200.5
135°	1261.0	1268.7	1266.1	1263.6	1255.8
137.5°	1315.1	1322.8	1320.2	1320.2	1313.8
140°	1367.9	1370.5	1369.2	1371.8	1364.0
142.5°	1415.6	1416.8	1419.4	1419.4	1411.7
145°	1461.9	1464.5	1464.5	1465.8	1458.1
147.5°	1503.1	1503.1	1504.4	1505.7	1496.7
150°	1541.8	1539.2	1541.8	1544.4	1534.1
152.5°	1579.1	1572.7	1575.3	1577.8	1568.8
155°	1610.0	1602.3	1604.9	1608.8	1598.5
157.5°	1634.5	1630.7	1630.7	1634.5	1624.2
160°	1660.3	1652.6	1653.8	1659.0	1648.7
162.5°	1680.9	1673.2	1674.4	1682.2	1670.6
165°	1698.9	1691.2	1692.5	1700.2	1689.9
167.5°	1713.1	1705.4	1706.6	1715.7	1704.1
170°	1724.7	1715.7	1717.0	1727.3	1715.7
172.5°	1732.4	1723.4	1726.0	1735.0	1723.4
175°	1737.6	1729.8	1731.1	1741.4	1729.8
177.5°	1741.4	1733.7	1735.0	1744.0	1733.7
180°	1737.6	1737.6	1737.6	1737.6	1737.6

(END OF REPORT)