

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: P1034414

Luminaire Tested: S125DIW-B1270D1340UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034414
REPORT IS A COMBINATION OF REPORTS P1003138 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1340UB2750-4F0-XX-W2A-F1_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

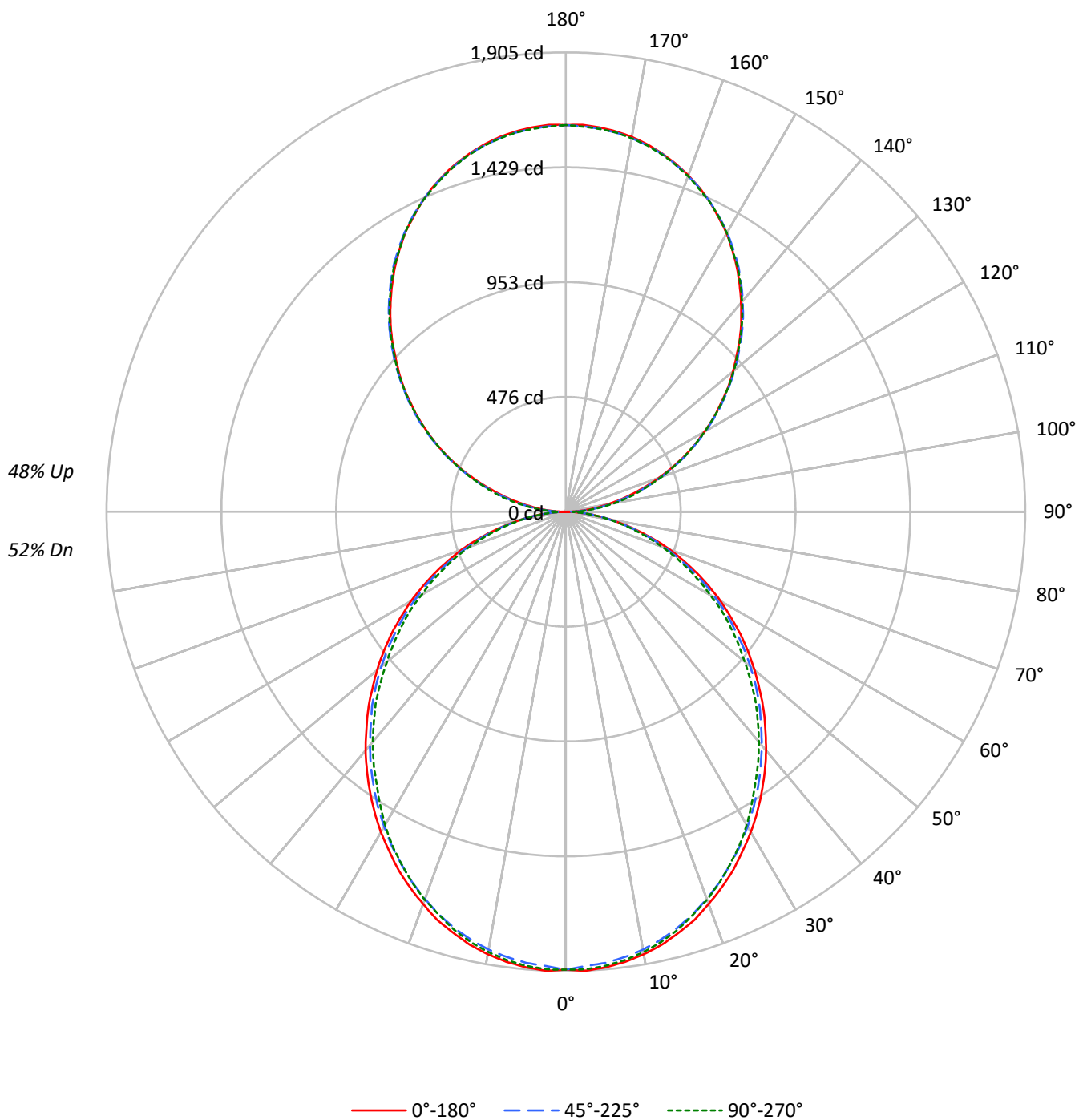
Lumens per Lamp: N/A
Luminaire Lumens: 9421.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	98	94	90	86	91	87	84	81	74	72	69	62	61	59	52	50	49
2	89	82	76	71	83	76	71	66	65	61	57	55	52	49	45	43	41
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	37	35
4	75	64	56	50	69	59	52	47	51	45	41	43	39	36	36	33	30
5	69	57	49	43	63	53	46	40	46	40	35	39	34	31	32	29	26
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12168	12168	12168
5°	12168	11886	11908
10°	12068	11613	11577
15°	11910	11287	11186
20°	11695	10909	10738
25°	11465	10497	10258
30°	11187	10068	9753
35°	10891	9618	9186
40°	10585	9142	8683
45°	10254	8678	8148
50°	9889	8152	7525
55°	9529	7571	6951
60°	9098	6960	6284
65°	8583	6253	5594
70°	8060	5438	4798
75°	7178	4478	3880
80°	6117	3345	2854
85°	4723	1977	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	1.9
10°-20°	506.2	5.4
20°-30°	747.3	7.9
30°-40°	871.9	9.3
40°-50°	875.7	9.3
50°-60°	768.7	8.2
60°-70°	572.6	6.1
70°-80°	327.0	3.5
80°-90°	96.9	1.0
90°-100°	106.6	1.1
100°-110°	316.8	3.4
110°-120°	537.3	5.7
120°-130°	707.3	7.5
130°-140°	792.6	8.4
140°-150°	776.9	8.2
150°-160°	652.5	6.9
160°-170°	433.8	4.6
170°-180°	151.8	1.6
0°-30°	1432.7	15.2
0°-40°	2304.6	24.5
0°-60°	3949.0	41.9
0°-90°	4945.5	52.5
90°-120°	960.7	10.2
90°-150°	3237.4	34.4
90°-180°	4475.0	47.5
0°-180°	9421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1896	1893	1878	1892	1890	180
15°	1808	1803	1786	1794	1794	510
25°	1641	1633	1614	1617	1612	755
35°	1417	1411	1390	1382	1370	886
45°	1160	1154	1136	1118	1113	894
55°	884	879	858	844	834	789
65°	596	594	577	563	557	592
75°	317	314	306	302	296	337
85°	83	84	84	83	80	90
90°	1	11	20	26	30	11
95°	81	84	96	105	107	85
105°	284	291	298	306	310	303
115°	538	543	545	544	543	532
125°	785	792	794	791	790	703
135°	1021	1028	1030	1030	1025	787
145°	1237	1242	1245	1245	1242	773
155°	1415	1415	1416	1421	1415	652
165°	1539	1536	1538	1542	1535	434
175°	1600	1595	1595	1602	1594	152
180°	1604	1604	1604	1604	1604	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.1	1899.1	1899.1	1899.1	1899.1
2.5°	1905.2	1900.6	1885.6	1900.6	1899.1
5°	1896.1	1893.1	1878.1	1891.6	1890.1
7.5°	1882.6	1879.6	1863.1	1876.6	1875.1
10°	1863.1	1860.1	1843.6	1855.6	1854.1
12.5°	1839.0	1833.0	1818.0	1827.0	1827.0
15°	1807.5	1803.0	1786.5	1794.0	1794.0
17.5°	1774.4	1766.9	1750.4	1759.4	1751.9
20°	1730.9	1727.9	1708.3	1718.8	1711.3
22.5°	1687.3	1681.3	1663.3	1669.3	1664.8
25°	1640.7	1633.2	1613.7	1616.7	1612.2
27.5°	1586.6	1582.1	1562.6	1564.1	1559.6
30°	1534.0	1529.5	1507.0	1504.0	1499.5
32.5°	1476.9	1469.4	1449.9	1443.9	1434.9
35°	1416.8	1410.8	1389.8	1382.3	1370.3
37.5°	1355.2	1347.7	1328.2	1317.7	1310.2
40°	1292.1	1284.6	1263.6	1250.1	1245.6
42.5°	1224.5	1218.5	1197.5	1185.5	1177.9
45°	1159.9	1153.9	1135.9	1117.8	1113.3
47.5°	1089.3	1090.8	1068.3	1050.2	1039.7
50°	1021.7	1017.2	999.2	979.6	969.1
52.5°	952.6	949.6	930.0	913.5	901.5
55°	883.5	879.0	857.9	844.4	833.9
57.5°	809.8	808.3	790.3	772.3	767.8
60°	740.7	734.7	718.2	703.2	692.6
62.5°	668.6	664.1	650.6	634.0	626.5
65°	596.5	593.5	577.0	563.4	557.4
67.5°	525.9	519.9	507.8	495.8	492.8
70°	459.8	452.2	438.7	429.7	423.7
72.5°	387.6	383.1	375.6	365.1	359.1
75°	317.0	314.0	306.5	302.0	296.0
77.5°	250.9	249.4	244.9	241.9	237.4
80°	189.3	189.3	186.3	184.8	181.8
82.5°	135.2	132.2	132.2	129.2	129.2
85°	82.6	84.1	84.1	82.6	79.6
87.5°	40.6	40.6	39.1	39.1	36.1
90°	1.2	11.2	20.0	26.2	30.0
92.5°	37.4	43.7	54.9	63.6	66.1
95°	81.1	83.6	96.1	104.8	107.3
97.5°	124.8	126.0	143.5	151.0	152.2
100°	174.7	174.7	190.9	202.2	204.7
102.5°	228.4	234.6	240.9	253.3	257.1
105°	284.5	290.8	298.3	305.7	309.5
107.5°	345.7	351.9	358.2	361.9	361.9
110°	409.3	415.6	419.3	423.0	421.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	474.2	476.7	481.7	483.0	480.5
115°	537.9	542.9	545.3	544.1	542.9
117.5°	602.8	604.0	606.5	607.7	602.8
120°	662.7	668.9	670.1	670.1	665.1
122.5°	727.5	728.8	732.5	731.3	727.5
125°	785.0	792.4	793.7	791.2	789.9
127.5°	848.6	852.3	853.6	852.3	849.8
130°	904.8	911.0	913.5	912.2	909.7
132.5°	960.9	972.1	970.9	969.6	965.9
135°	1020.8	1028.3	1029.5	1029.5	1024.6
137.5°	1077.0	1084.5	1087.0	1088.2	1082.0
140°	1130.6	1136.9	1140.6	1143.1	1136.9
142.5°	1184.3	1189.3	1194.3	1195.5	1189.3
145°	1236.7	1241.7	1245.4	1245.4	1241.7
147.5°	1285.4	1289.1	1291.6	1295.4	1285.4
150°	1334.0	1332.8	1337.8	1337.8	1335.3
152.5°	1374.0	1376.5	1377.7	1381.5	1376.5
155°	1415.2	1415.2	1416.4	1421.4	1415.2
157.5°	1452.6	1450.1	1451.3	1456.3	1447.6
160°	1485.0	1481.3	1482.5	1487.5	1481.3
162.5°	1513.7	1511.2	1511.2	1517.5	1510.0
165°	1538.7	1536.2	1537.5	1542.4	1535.0
167.5°	1561.2	1556.2	1556.2	1563.7	1556.2
170°	1578.6	1573.6	1573.6	1581.1	1572.4
172.5°	1591.1	1586.1	1586.1	1593.6	1586.1
175°	1599.9	1594.9	1594.9	1602.3	1593.6
177.5°	1606.1	1601.1	1599.9	1607.3	1598.6
180°	1603.6	1603.6	1603.6	1603.6	1603.6

(END OF REPORT)