

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: P1035169

Luminaire Tested: S125DIW-B1270D1560UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035169
REPORT IS A COMBINATION OF REPORTS P1003241 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1560UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

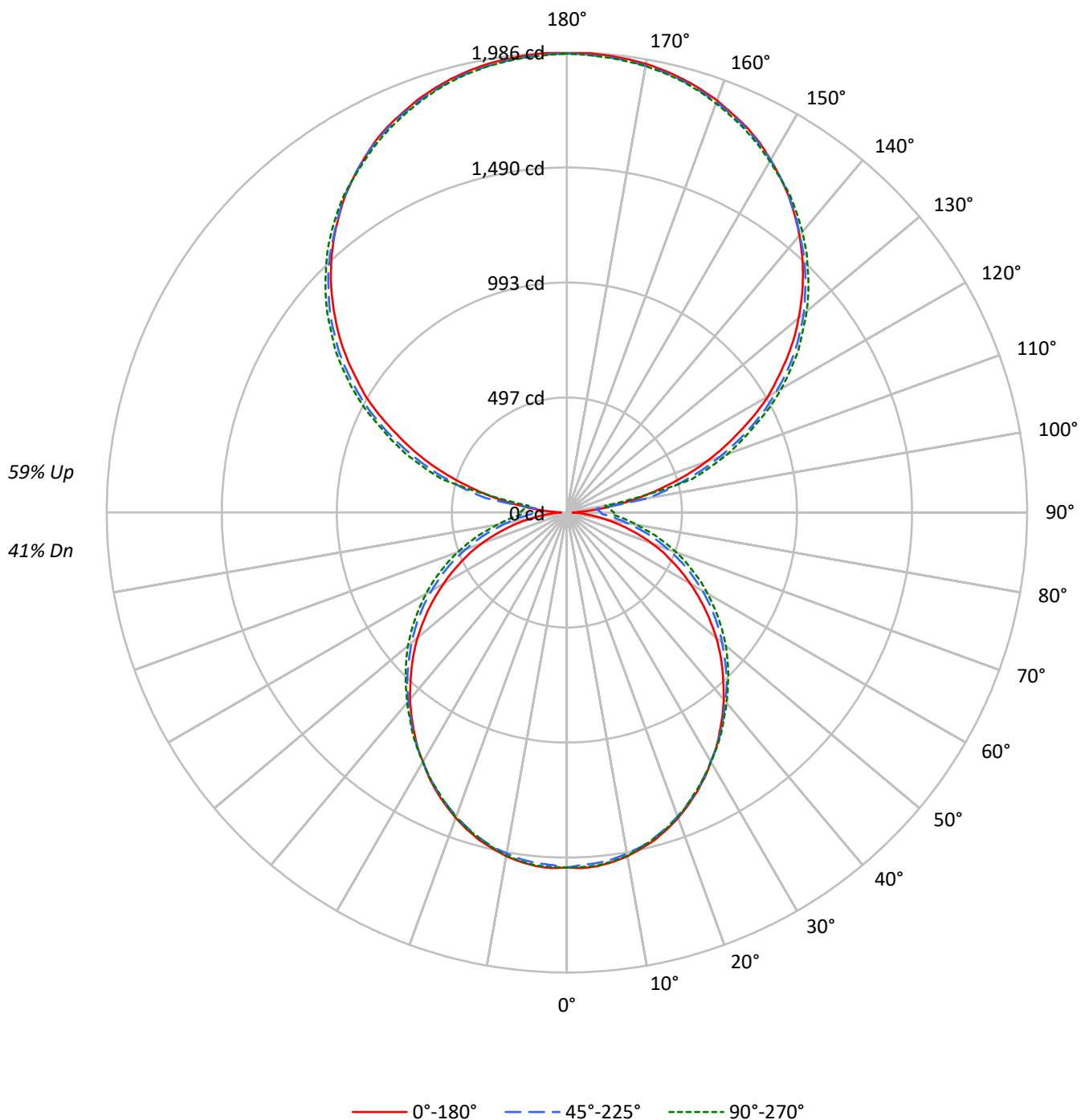
Lumens per Lamp: N/A
Luminaire Lumens: 10836.0 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48
1	95	91	87	83	87	83	79	76	68	65	63	54	52	51	41	40	39
2	86	79	73	67	78	72	67	62	59	55	52	47	44	42	36	34	33
3	79	69	62	56	71	63	57	51	52	47	43	41	38	35	32	29	27
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	24
5	66	54	46	40	60	50	42	37	41	36	31	33	29	26	25	23	20
6	61	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	40	32	26	47	36	29	25	30	25	21	25	21	18	19	16	14
9	48	36	29	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9818	9818	9818
5°	9834	9612	9636
10°	9760	9416	9389
15°	9642	9188	9086
20°	9481	8913	8786
25°	9291	8619	8421
30°	9061	8300	8091
35°	8846	8005	7785
40°	8627	7695	7478
45°	8380	7426	7201
50°	8143	7133	6952
55°	7858	6855	6662
60°	7546	6537	6365
65°	7220	6203	6031
70°	6847	5755	5683
75°	6258	5313	5258
80°	5487	4774	4788
85°	4723	4345	4541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.3
10°-20°	411.6	3.8
20°-30°	612.1	5.6
30°-40°	724.9	6.7
40°-50°	749.5	6.9
50°-60°	690.4	6.4
60°-70°	558.1	5.2
70°-80°	373.4	3.4
80°-90°	196.0	1.8
90°-100°	176.0	1.6
100°-110°	527.3	4.9
110°-120°	858.9	7.9
120°-130°	1063.9	9.8
130°-140°	1124.9	10.4
140°-150°	1045.9	9.7
150°-160°	843.9	7.8
160°-170°	545.8	5.0
170°-180°	188.2	1.7
0°-30°	1168.8	10.8
0°-40°	1893.7	17.5
0°-60°	3333.6	30.8
0°-90°	4461.1	41.2
90°-120°	1562.1	14.4
90°-150°	4796.9	44.3
90°-180°	6375.0	58.8
0°-180°	10836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1532	1529	1519	1531	1529	145
15°	1463	1465	1454	1463	1457	412
25°	1330	1334	1325	1331	1324	612
35°	1151	1161	1157	1161	1161	720
45°	948	964	972	982	984	731
55°	729	753	777	793	799	651
65°	502	536	572	595	601	498
75°	276	316	364	394	401	293
85°	83	132	185	218	230	86
90°	26	85	147	188	204	21
95°	103	138	133	174	184	118
105°	445	475	520	550	559	472
115°	820	838	878	899	899	813
125°	1159	1168	1198	1216	1219	1035
135°	1441	1448	1456	1472	1471	1111
145°	1668	1670	1670	1679	1676	1043
155°	1836	1827	1830	1834	1823	846
165°	1937	1928	1930	1939	1927	547
175°	1981	1972	1974	1986	1972	189
180°	1981	1981	1981	1981	1981	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1536.9	1533.9	1523.4	1533.9	1532.4
5°	1532.4	1529.4	1518.8	1530.9	1529.4
7.5°	1521.8	1520.3	1509.8	1520.3	1518.8
10°	1506.8	1506.8	1494.8	1505.3	1503.8
12.5°	1485.8	1487.3	1478.3	1485.8	1481.3
15°	1463.3	1464.8	1454.2	1463.3	1457.2
17.5°	1434.7	1437.7	1427.2	1434.7	1430.2
20°	1403.2	1406.2	1395.7	1400.2	1400.2
22.5°	1367.1	1373.1	1361.1	1367.1	1362.6
25°	1329.6	1334.1	1325.0	1331.1	1323.5
27.5°	1289.0	1295.0	1284.5	1289.0	1286.0
30°	1242.4	1251.4	1242.4	1245.4	1243.9
32.5°	1200.4	1207.9	1201.9	1204.9	1203.4
35°	1150.8	1161.3	1156.8	1161.3	1161.3
37.5°	1102.7	1111.7	1110.2	1116.2	1114.7
40°	1053.1	1065.1	1063.6	1069.7	1072.7
42.5°	999.0	1015.6	1020.1	1027.6	1027.6
45°	948.0	964.5	972.0	982.5	984.0
47.5°	895.4	910.4	922.4	937.4	940.5
50°	841.3	857.8	874.3	890.9	895.4
52.5°	784.2	805.2	826.3	844.3	847.3
55°	728.6	752.7	776.7	793.2	799.2
57.5°	671.5	700.1	727.1	745.2	749.7
60°	614.4	644.5	674.5	697.1	701.6
62.5°	558.9	588.9	622.0	647.5	653.5
65°	501.8	536.3	572.4	594.9	600.9
67.5°	449.2	482.2	518.3	545.3	552.9
70°	390.6	425.2	464.2	492.8	501.8
72.5°	333.5	369.6	413.1	444.7	450.7
75°	276.4	315.5	363.6	393.6	401.1
77.5°	220.8	265.9	311.0	344.0	350.0
80°	169.8	214.8	265.9	299.0	305.0
82.5°	123.2	171.3	223.8	255.4	267.4
85°	82.6	132.2	184.8	217.8	229.9
87.5°	52.6	100.7	151.7	186.3	196.8
90°	25.5	85.3	146.7	188.5	203.5
92.5°	48.9	79.3	140.7	181.0	193.0
95°	103.2	137.9	133.2	173.5	184.0
97.5°	175.2	220.1	130.1	164.6	176.5
100°	261.8	297.8	351.7	164.4	167.5
102.5°	349.9	384.3	433.8	466.8	352.4
105°	445.3	475.3	520.3	550.4	559.4
107.5°	543.7	564.8	611.2	642.8	645.9
110°	639.1	657.1	702.1	726.3	738.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	730.2	748.1	790.1	811.3	818.9
115°	819.7	837.6	878.1	899.3	899.4
117.5°	913.7	921.2	964.7	981.4	988.9
120°	1001.8	1004.8	1043.8	1066.4	1068.1
122.5°	1078.2	1087.0	1121.6	1142.6	1142.8
125°	1158.9	1167.7	1197.8	1215.9	1219.0
127.5°	1235.3	1241.1	1265.1	1284.8	1282.1
130°	1305.8	1311.6	1334.1	1350.8	1350.9
132.5°	1374.8	1383.6	1394.2	1415.3	1413.9
135°	1440.9	1448.2	1455.7	1472.3	1471.1
137.5°	1502.5	1509.9	1512.9	1530.9	1529.6
140°	1561.3	1564.2	1564.2	1583.7	1580.9
142.5°	1615.6	1615.6	1618.5	1632.0	1629.2
145°	1668.5	1669.9	1669.9	1678.9	1676.1
147.5°	1714.0	1714.0	1715.4	1719.9	1712.6
150°	1758.0	1755.1	1758.0	1761.0	1750.7
152.5°	1800.6	1793.3	1796.2	1799.2	1788.9
155°	1835.9	1827.1	1830.0	1834.4	1822.7
157.5°	1863.8	1859.4	1859.4	1863.8	1852.0
160°	1893.2	1884.3	1885.8	1891.7	1879.9
162.5°	1916.7	1907.8	1909.3	1918.1	1904.9
165°	1937.2	1928.4	1929.9	1938.7	1926.9
167.5°	1953.4	1944.6	1946.0	1956.3	1943.1
170°	1966.6	1956.3	1957.8	1969.5	1956.3
172.5°	1975.4	1965.1	1968.1	1978.3	1965.1
175°	1981.3	1972.5	1973.9	1985.7	1972.5
177.5°	1985.7	1976.9	1978.3	1988.6	1976.9
180°	1981.3	1981.3	1981.3	1981.3	1981.3

(END OF REPORT)