

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: P983218

Luminaire Tested: S124IW-B1560UB2750-4F0-XX-W2A_4000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P983218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124IW-B1560UB2750-4F0-XX-W2A_4000K
Description: Define 4 Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

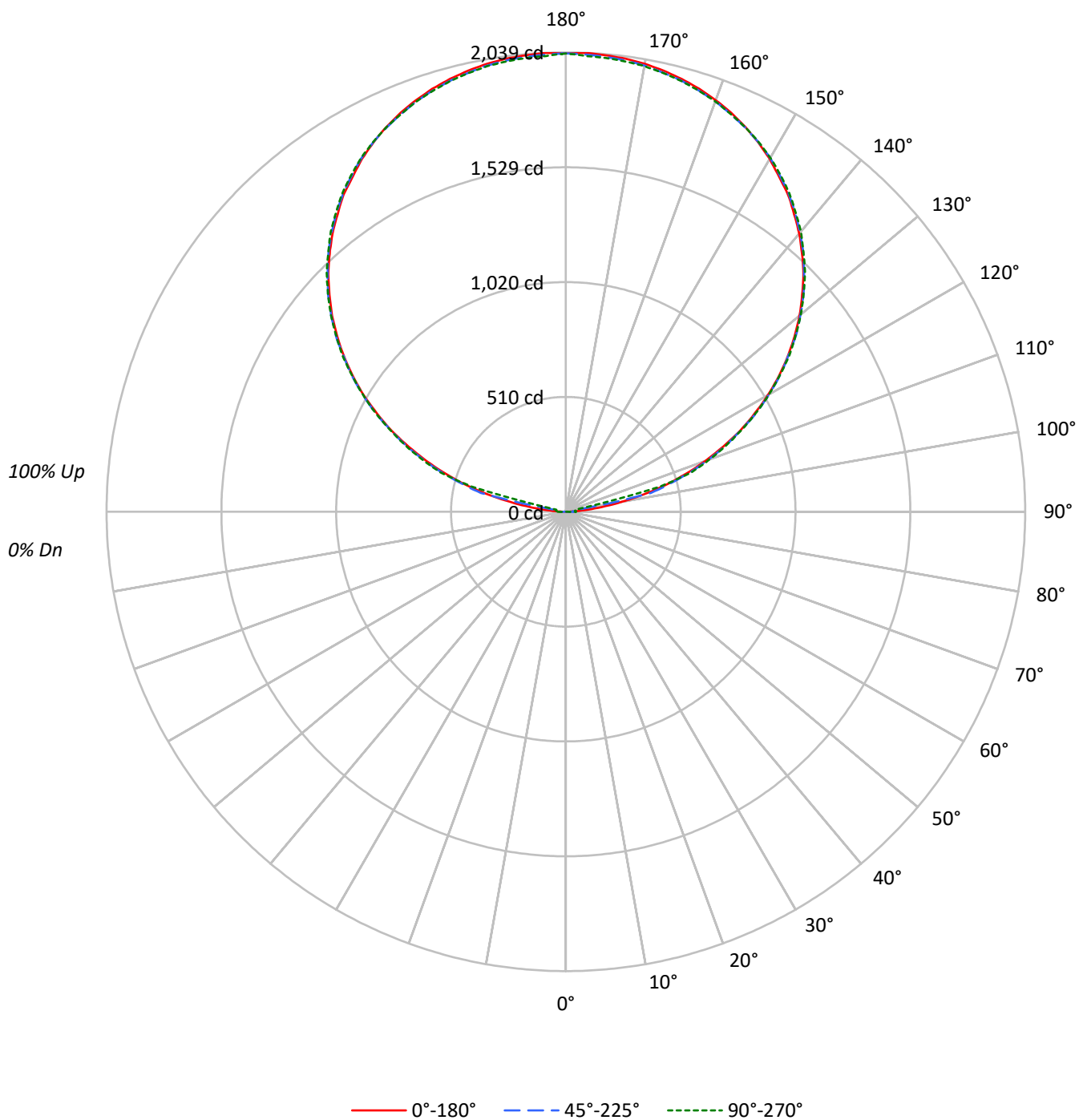
Lumens per Lamp: N/A
Luminaire Lumens: 6299.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 52.2
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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	4.2	0.1
90°-100°	67.5	1.1
100°-110°	444.7	7.1
110°-120°	849.2	13.5
120°-130°	1078.0	17.1
130°-140°	1153.3	18.3
140°-150°	1078.4	17.1
150°-160°	869.6	13.8
160°-170°	560.8	8.9
170°-180°	193.3	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.2	0.1
90°-120°	1361.4	21.6
90°-150°	4671.1	74.2
90°-180°	6295.0	99.9
0°-180°	6299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	5	21	34	43	46	4
95°	84	32	34	43	44	103
105°	458	467	475	488	434	479
115°	855	860	858	861	861	842
125°	1202	1208	1205	1210	1211	1073
135°	1491	1490	1496	1499	1502	1149
145°	1719	1724	1724	1725	1728	1074
155°	1885	1887	1882	1888	1884	869
165°	1989	1981	1981	1993	1980	562
175°	2034	2025	2027	2040	2022	194
180°	2034	2034	2034	2034	2034	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	4.6	21.3	33.5	42.6	45.6
92.5°	22.8	19.8	32.0	41.1	41.1
95°	83.7	32.0	33.5	42.6	44.1
97.5°	159.8	193.2	33.5	41.1	42.6
100°	249.5	276.9	66.9	41.1	42.6
102.5°	350.0	368.2	386.5	44.1	44.1
105°	458.0	467.1	474.7	488.4	433.6
107.5°	556.9	561.4	572.1	579.7	585.8
110°	657.3	661.9	671.0	674.0	678.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	754.7	763.8	766.9	765.3	771.4
115°	855.1	859.7	858.1	861.2	861.2
117.5°	944.9	951.0	955.5	954.0	954.0
120°	1036.2	1042.2	1040.7	1043.8	1040.7
122.5°	1121.4	1124.4	1127.5	1129.0	1125.9
125°	1202.0	1208.1	1205.1	1209.6	1211.1
127.5°	1279.6	1281.1	1288.7	1287.2	1285.7
130°	1354.2	1355.7	1360.2	1361.8	1361.8
132.5°	1422.6	1425.7	1431.8	1433.3	1431.8
135°	1491.1	1489.6	1495.7	1498.7	1501.8
137.5°	1552.0	1552.0	1559.6	1562.6	1561.1
140°	1611.3	1614.3	1617.4	1622.0	1623.5
142.5°	1664.6	1670.6	1672.2	1675.2	1675.2
145°	1719.3	1723.9	1723.9	1725.4	1728.5
147.5°	1761.9	1771.1	1769.5	1771.1	1772.6
150°	1809.1	1815.2	1813.7	1813.7	1815.2
152.5°	1848.7	1853.2	1850.2	1853.2	1851.7
155°	1885.2	1886.7	1882.1	1888.2	1883.7
157.5°	1917.1	1917.1	1911.0	1918.6	1911.0
160°	1944.5	1940.0	1938.4	1947.6	1938.4
162.5°	1968.9	1962.8	1961.3	1970.4	1959.7
165°	1988.6	1981.0	1981.0	1993.2	1979.5
167.5°	2005.4	1997.8	1996.2	2009.9	1994.7
170°	2019.1	2009.9	2011.5	2023.6	2008.4
172.5°	2028.2	2019.1	2020.6	2032.8	2016.0
175°	2034.3	2025.2	2026.7	2040.4	2022.1
177.5°	2038.9	2028.2	2031.2	2043.4	2025.2
180°	2034.3	2034.3	2034.3	2034.3	2034.3

(END OF REPORT)