

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: P1033964

Luminaire Tested: S124RDIW-B1195D1560UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033964
REPORT IS A COMBINATION OF REPORTS P1000130 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B1195D1560UB27-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

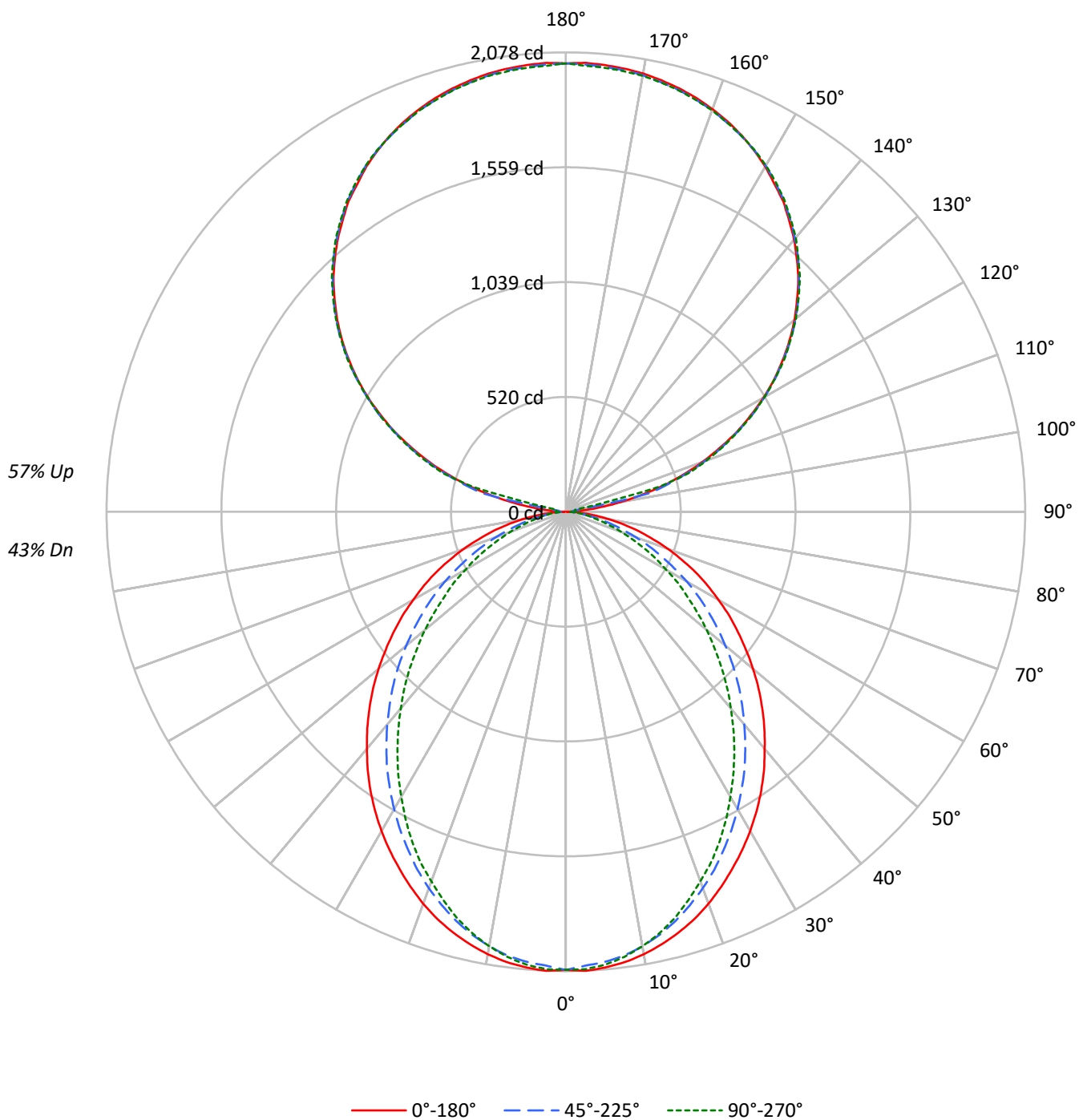
Lumens per Lamp: N/A
Luminaire Lumens: 11068.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50
1	97	92	89	85	88	85	81	79	70	68	66	57	55	54	45	44	43
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36
3	80	71	64	58	73	65	59	54	55	50	46	44	41	39	35	33	31
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	32	29	27
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17
9	50	38	30	26	46	35	29	24	30	25	21	25	21	18	20	17	15
10	47	35	28	23	43	32	26	22	27	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16898	16898	16898
5°	16899	16395	16397
10°	16756	15878	15689
15°	16525	15234	14854
20°	16223	14500	13902
25°	15847	13707	12972
30°	15479	12899	11927
35°	15073	12079	10906
40°	14590	11197	9857
45°	14138	10322	8818
50°	13624	9367	7764
55°	13068	8387	6675
60°	12451	7347	5600
65°	11856	6154	4565
70°	11010	4899	3488
75°	9922	3563	2440
80°	8287	2188	1753
85°	6236	1261	964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	1.8
10°-20°	543.3	4.9
20°-30°	784.4	7.1
30°-40°	889.0	8.0
40°-50°	858.3	7.8
50°-60°	713.6	6.4
60°-70°	492.5	4.5
70°-80°	248.9	2.2
80°-90°	67.4	0.6
90°-100°	67.3	0.6
100°-110°	443.4	4.0
110°-120°	846.6	7.6
120°-130°	1074.8	9.7
130°-140°	1149.8	10.4
140°-150°	1075.1	9.7
150°-160°	867.0	7.8
160°-170°	559.1	5.1
170°-180°	192.7	1.7
0°-30°	1522.5	13.8
0°-40°	2411.5	21.8
0°-60°	3983.4	36.0
0°-90°	4792.2	43.3
90°-120°	1357.3	12.3
90°-150°	4657.0	42.1
90°-180°	6276.0	56.7
0°-180°	11068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2069	2063	2044	2060	2056	196
15°	1971	1956	1917	1914	1902	555
25°	1782	1753	1688	1661	1645	821
35°	1541	1490	1410	1357	1328	963
45°	1257	1198	1103	1025	996	969
55°	952	888	785	703	673	852
65°	647	579	478	409	390	639
75°	344	286	211	174	165	363
85°	86	54	49	46	46	94
90°	5	21	33	42	46	9
95°	83	32	33	42	44	103
105°	457	466	473	487	432	478
115°	852	857	856	859	859	839
125°	1198	1204	1201	1206	1208	1070
135°	1487	1485	1491	1494	1497	1145
145°	1714	1719	1719	1720	1723	1071
155°	1880	1881	1876	1882	1878	867
165°	1983	1975	1975	1987	1974	560
175°	2028	2019	2021	2034	2016	193
180°	2028	2028	2028	2028	2028	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.2	2072.2	2072.2	2072.2	2072.2
2.5°	2078.5	2072.2	2054.7	2072.2	2070.6
5°	2069.0	2062.7	2043.6	2059.5	2056.3
7.5°	2054.7	2048.4	2024.6	2035.7	2030.9
10°	2032.5	2024.6	1996.0	2002.4	1996.0
12.5°	2004.0	1994.4	1959.5	1962.7	1953.2
15°	1970.6	1956.4	1916.7	1913.5	1902.4
17.5°	1932.6	1911.9	1865.9	1858.0	1842.1
20°	1886.5	1865.9	1812.0	1799.3	1778.7
22.5°	1835.8	1812.0	1753.3	1732.6	1716.8
25°	1781.8	1753.3	1688.2	1661.2	1645.4
27.5°	1726.3	1691.4	1623.2	1591.4	1569.2
30°	1667.6	1627.9	1553.3	1513.7	1488.3
32.5°	1605.7	1559.7	1481.9	1434.3	1410.5
35°	1540.7	1489.9	1410.5	1356.6	1328.0
37.5°	1472.4	1420.1	1332.8	1274.1	1245.5
40°	1399.4	1347.1	1256.6	1190.0	1161.4
42.5°	1329.6	1274.1	1178.9	1110.7	1080.5
45°	1256.6	1197.9	1102.7	1025.0	996.4
47.5°	1182.1	1121.8	1023.4	942.5	910.7
50°	1105.9	1044.0	942.5	863.1	833.0
52.5°	1028.2	967.9	863.1	782.2	750.5
55°	952.0	888.5	785.4	702.9	672.7
57.5°	877.4	810.8	709.2	625.1	602.9
60°	796.5	733.0	631.5	549.0	523.6
62.5°	723.5	656.9	552.2	477.6	458.5
65°	647.4	579.1	477.6	409.4	390.3
67.5°	568.0	503.0	407.8	347.5	325.3
70°	493.5	426.8	336.4	284.0	268.1
72.5°	414.1	355.4	271.3	228.5	214.2
75°	344.3	285.6	211.0	174.5	165.0
77.5°	271.3	220.5	157.1	131.7	128.5
80°	201.5	155.5	107.9	103.1	101.5
82.5°	141.2	100.0	77.7	74.6	73.0
85°	85.7	53.9	49.2	46.0	46.0
87.5°	36.5	23.8	22.2	20.6	22.2
90°	4.6	21.2	33.4	42.5	45.5
92.5°	22.8	19.7	31.9	41.0	41.0
95°	83.4	31.9	33.4	42.5	44.0
97.5°	159.3	192.7	33.4	41.0	42.5
100°	248.8	276.1	66.7	41.0	42.5
102.5°	348.9	367.1	385.3	44.0	44.0
105°	456.6	465.7	473.3	486.9	432.3
107.5°	555.2	559.8	570.4	578.0	584.0
110°	655.3	659.9	669.0	672.0	676.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	752.4	761.5	764.5	763.0	769.1
115°	852.5	857.1	855.6	858.6	858.6
117.5°	942.0	948.1	952.6	951.1	951.1
120°	1033.0	1039.1	1037.6	1040.6	1037.6
122.5°	1118.0	1121.0	1124.1	1125.6	1122.5
125°	1198.4	1204.5	1201.4	1206.0	1207.5
127.5°	1275.7	1277.3	1284.8	1283.3	1281.8
130°	1350.1	1351.6	1356.1	1357.7	1357.7
132.5°	1418.3	1421.4	1427.4	1429.0	1427.4
135°	1486.6	1485.1	1491.2	1494.2	1497.2
137.5°	1547.3	1547.3	1554.9	1557.9	1556.4
140°	1606.4	1609.5	1612.5	1617.1	1618.6
142.5°	1659.5	1665.6	1667.1	1670.2	1670.2
145°	1714.1	1718.7	1718.7	1720.2	1723.2
147.5°	1756.6	1765.7	1764.2	1765.7	1767.2
150°	1803.6	1809.7	1808.2	1808.2	1809.7
152.5°	1843.1	1847.6	1844.6	1847.6	1846.1
155°	1879.5	1881.0	1876.5	1882.5	1878.0
157.5°	1911.3	1911.3	1905.3	1912.9	1905.3
160°	1938.7	1934.1	1932.6	1941.7	1932.6
162.5°	1962.9	1956.9	1955.3	1964.4	1953.8
165°	1982.6	1975.1	1975.1	1987.2	1973.5
167.5°	1999.3	1991.7	1990.2	2003.9	1988.7
170°	2013.0	2003.9	2005.4	2017.5	2002.4
172.5°	2022.1	2013.0	2014.5	2026.6	2009.9
175°	2028.2	2019.0	2020.6	2034.2	2016.0
177.5°	2032.7	2022.1	2025.1	2037.3	2019.0
180°	2028.2	2028.2	2028.2	2028.2	2028.2

(END OF REPORT)