

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: P1035685

Luminaire Tested: S125RDIW-B1090D1050UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035685
REPORT IS A COMBINATION OF REPORTS P1005949 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D1050UB35-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

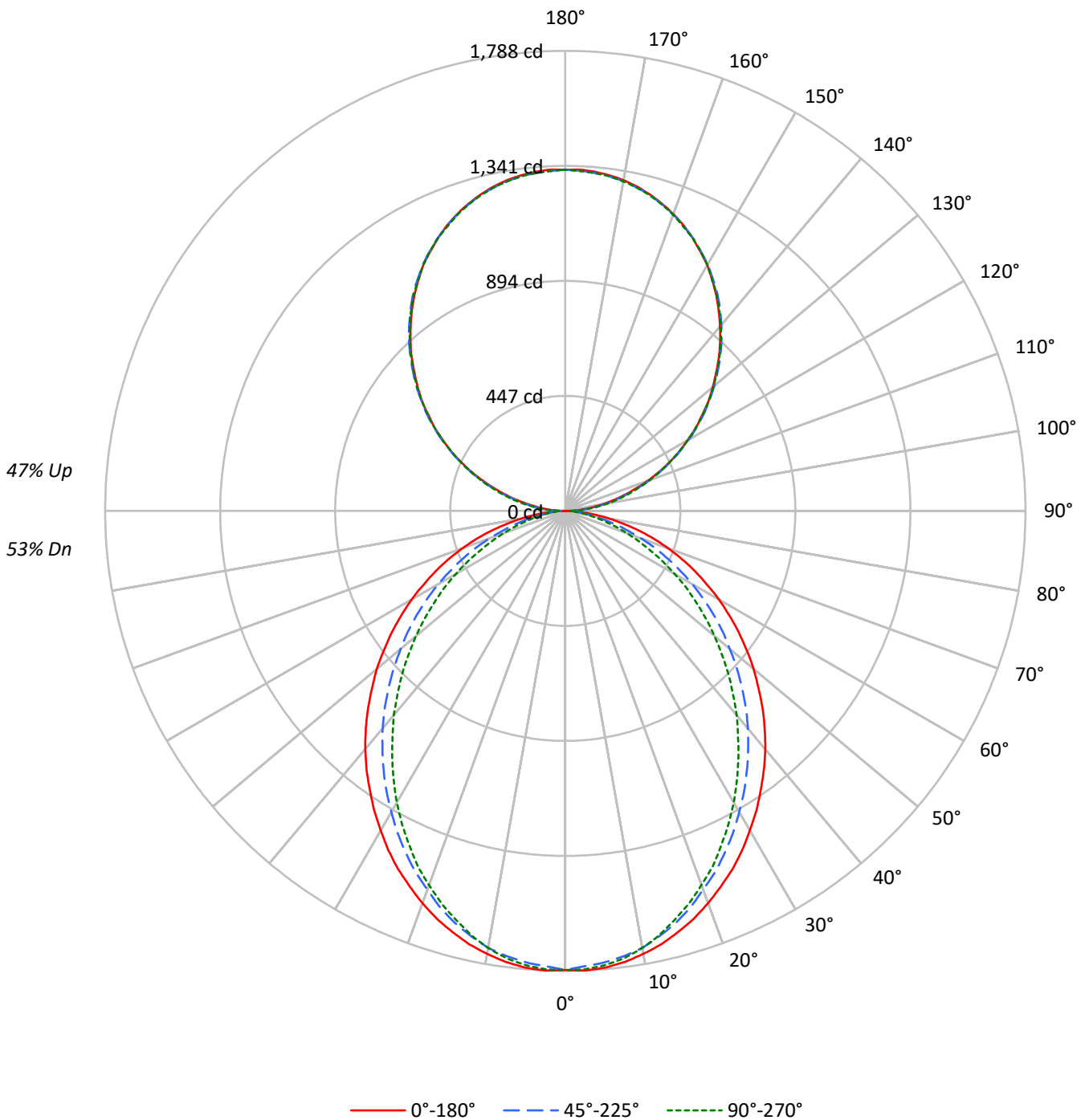
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7919.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	84	81	75	73	70	63	62	60	53	52	50	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38
3	82	73	66	60	76	68	62	56	58	54	50	50	46	43	41	39	37	33
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	34	30	28	25
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	31	27	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	28	25	28	25	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	32	27	47	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11433	11433	11433
5°	11434	11148	11166
10°	11323	10867	10771
15°	11162	10474	10253
20°	10964	10001	9708
25°	10737	9539	9125
30°	10458	9031	8512
35°	10174	8515	7861
40°	9903	7985	7225
45°	9579	7414	6560
50°	9250	6807	5881
55°	8867	6209	5179
60°	8476	5525	4451
65°	8009	4762	3665
70°	7466	3876	2884
75°	6714	2915	2102
80°	5662	1887	1418
85°	4237	1013	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9579 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	2.1
10°-20°	469.3	5.9
20°-30°	680.5	8.6
30°-40°	775.3	9.8
40°-50°	755.7	9.5
50°-60°	636.0	8.0
60°-70°	445.7	5.6
70°-80°	228.5	2.9
80°-90°	59.1	0.7
90°-100°	88.2	1.1
100°-110°	262.0	3.3
110°-120°	444.3	5.6
120°-130°	584.9	7.4
130°-140°	655.4	8.3
140°-150°	642.4	8.1
150°-160°	539.6	6.8
160°-170°	358.7	4.5
170°-180°	125.5	1.6
0°-30°	1317.8	16.6
0°-40°	2093.2	26.4
0°-60°	3484.9	44.0
0°-90°	4218.1	53.3
90°-120°	794.4	10.0
90°-150°	2677.1	33.8
90°-180°	3701.0	46.7
0°-180°	7919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1782	1776	1762	1775	1772	169
15°	1694	1686	1658	1656	1644	478
25°	1536	1516	1466	1449	1434	707
35°	1324	1291	1230	1191	1173	829
45°	1084	1044	970	916	896	836
55°	822	779	704	643	621	735
65°	557	511	439	386	365	551
75°	296	256	200	170	160	313
85°	74	50	43	42	40	81
90°	1	9	16	22	25	9
95°	67	69	80	87	89	70
105°	235	240	247	253	256	251
115°	445	449	451	450	449	440
125°	649	655	656	654	653	582
135°	844	850	851	851	847	651
145°	1023	1027	1030	1030	1027	639
155°	1170	1170	1171	1175	1170	539
165°	1272	1270	1271	1276	1269	359
175°	1323	1319	1319	1325	1318	126
180°	1326	1326	1326	1326	1326	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	1788.5	1784.4	1771.0	1784.4	1783.1
5°	1781.7	1776.4	1761.5	1775.0	1772.3
7.5°	1768.3	1762.9	1745.4	1756.1	1753.4
10°	1748.1	1744.0	1725.1	1729.2	1725.1
12.5°	1725.1	1719.7	1692.8	1695.5	1688.8
15°	1694.1	1686.1	1657.8	1656.4	1644.3
17.5°	1661.8	1649.7	1616.0	1609.2	1599.8
20°	1622.7	1609.2	1566.1	1559.4	1547.2
22.5°	1579.6	1566.1	1520.3	1505.5	1496.0
25°	1536.5	1516.2	1466.4	1448.8	1434.0
27.5°	1487.9	1463.7	1411.1	1388.2	1373.4
30°	1434.0	1408.4	1351.8	1320.8	1308.7
32.5°	1381.5	1350.5	1292.5	1257.5	1241.3
35°	1323.5	1291.2	1230.5	1191.4	1172.6
37.5°	1268.2	1229.2	1167.2	1121.3	1102.5
40°	1208.9	1168.5	1103.8	1052.6	1036.4
42.5°	1146.9	1105.2	1037.8	989.3	963.7
45°	1083.6	1044.5	970.4	916.5	896.3
47.5°	1017.6	977.1	903.0	847.7	824.8
50°	955.6	911.1	834.3	777.7	757.4
52.5°	888.2	842.4	770.9	708.9	688.7
55°	822.1	779.0	703.5	642.9	621.3
57.5°	754.7	708.9	636.1	576.8	558.0
60°	690.1	642.9	570.1	510.8	490.6
62.5°	621.3	576.8	502.7	448.8	428.6
65°	556.6	510.8	439.4	385.5	365.2
67.5°	491.9	446.1	377.4	326.2	310.0
70°	425.9	380.1	312.7	270.9	254.7
72.5°	361.2	316.7	254.7	217.0	207.6
75°	296.5	256.1	199.5	169.8	160.4
77.5°	230.5	198.1	150.9	128.0	120.0
80°	175.2	142.9	105.1	93.0	90.3
82.5°	121.3	93.0	70.1	66.0	64.7
85°	74.1	49.9	43.1	41.8	40.4
87.5°	31.0	21.6	20.2	20.2	18.9
90°	1.0	9.3	16.5	21.7	24.8
92.5°	31.0	36.1	45.4	52.6	54.7
95°	67.1	69.1	79.5	86.7	88.7
97.5°	103.2	104.2	118.7	124.9	125.9
100°	144.5	144.5	157.9	167.2	169.2
102.5°	188.8	194.0	199.2	209.5	212.6
105°	235.3	240.4	246.6	252.8	255.9
107.5°	285.9	291.0	296.2	299.3	299.3
110°	338.5	343.6	346.7	349.8	348.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	392.1	394.2	398.3	399.4	397.3
115°	444.8	448.9	451.0	449.9	448.9
117.5°	498.4	499.5	501.5	502.6	498.4
120°	548.0	553.1	554.2	554.2	550.0
122.5°	601.6	602.7	605.8	604.7	601.6
125°	649.1	655.3	656.3	654.3	653.2
127.5°	701.7	704.8	705.9	704.8	702.8
130°	748.2	753.3	755.4	754.4	752.3
132.5°	794.6	803.9	802.9	801.8	798.7
135°	844.1	850.3	851.4	851.4	847.2
137.5°	890.6	896.8	898.8	899.9	894.7
140°	935.0	940.1	943.2	945.3	940.1
142.5°	979.3	983.5	987.6	988.6	983.5
145°	1022.7	1026.8	1029.9	1029.9	1026.8
147.5°	1062.9	1066.0	1068.1	1071.2	1062.9
150°	1103.2	1102.1	1106.3	1106.3	1104.2
152.5°	1136.2	1138.2	1139.3	1142.4	1138.2
155°	1170.2	1170.2	1171.3	1175.4	1170.2
157.5°	1201.2	1199.1	1200.2	1204.3	1197.1
160°	1228.0	1224.9	1226.0	1230.1	1224.9
162.5°	1251.8	1249.7	1249.7	1254.9	1248.7
165°	1272.4	1270.3	1271.4	1275.5	1269.3
167.5°	1291.0	1286.8	1286.8	1293.0	1286.8
170°	1305.4	1301.3	1301.3	1307.5	1300.3
172.5°	1315.7	1311.6	1311.6	1317.8	1311.6
175°	1323.0	1318.8	1318.8	1325.0	1317.8
177.5°	1328.1	1324.0	1323.0	1329.2	1321.9
180°	1326.1	1326.1	1326.1	1326.1	1326.1

(END OF REPORT)