

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: P1035693

Luminaire Tested: S125RDIW-B1090D1050UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035693
REPORT IS A COMBINATION OF REPORTS P1005961 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D1050UB50-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

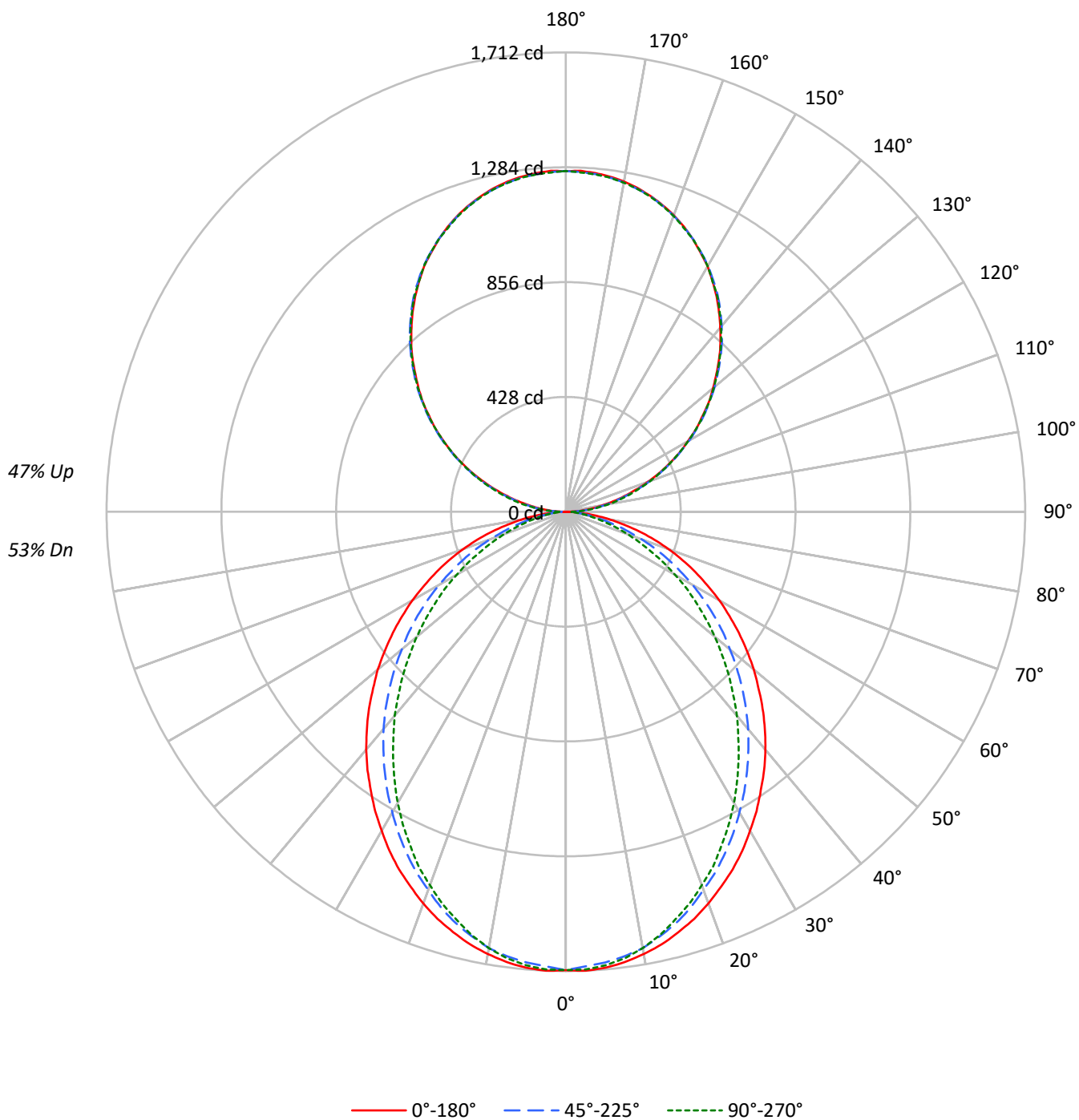
Lumens per Lamp: N/A
Luminaire Lumens: 7582.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10945	10945	10945
5°	10946	10672	10689
10°	10839	10403	10312
15°	10686	10027	9815
20°	10496	9574	9294
25°	10279	9132	8735
30°	10012	8646	8148
35°	9739	8152	7525
40°	9481	7645	6917
45°	9170	7097	6279
50°	8855	6516	5630
55°	8488	5944	4958
60°	8114	5290	4261
65°	7668	4558	3510
70°	7147	3710	2762
75°	6426	2791	2012
80°	5419	1806	1356
85°	4059	971	764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9170 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.1
10°-20°	449.3	5.9
20°-30°	651.5	8.6
30°-40°	742.2	9.8
40°-50°	723.5	9.5
50°-60°	608.8	8.0
60°-70°	426.7	5.6
70°-80°	218.7	2.9
80°-90°	56.5	0.7
90°-100°	84.4	1.1
100°-110°	250.9	3.3
110°-120°	425.4	5.6
120°-130°	560.1	7.4
130°-140°	627.6	8.3
140°-150°	615.2	8.1
150°-160°	516.7	6.8
160°-170°	343.5	4.5
170°-180°	120.2	1.6
0°-30°	1261.6	16.6
0°-40°	2003.8	26.4
0°-60°	3336.1	44.0
0°-90°	4038.0	53.3
90°-120°	760.7	10.0
90°-150°	2563.6	33.8
90°-180°	3544.0	46.7
0°-180°	7582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1706	1700	1686	1699	1697	162
15°	1622	1614	1587	1586	1574	457
25°	1471	1452	1404	1387	1373	677
35°	1267	1236	1178	1141	1122	793
45°	1037	1000	929	877	858	800
55°	787	746	674	615	595	704
65°	533	489	421	369	350	528
75°	284	245	191	163	154	300
85°	71	48	41	40	39	78
90°	1	9	16	21	24	8
95°	64	66	76	83	85	67
105°	225	230	236	242	245	240
115°	426	430	432	431	430	421
125°	622	628	628	626	626	557
135°	808	814	815	815	811	623
145°	979	983	986	986	983	612
155°	1121	1121	1122	1126	1121	516
165°	1218	1216	1218	1221	1216	344
175°	1267	1263	1263	1269	1262	120
180°	1270	1270	1270	1270	1270	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1712.1	1708.3	1695.4	1708.3	1707.0
5°	1705.7	1700.5	1686.3	1699.2	1696.6
7.5°	1692.8	1687.6	1670.8	1681.2	1678.6
10°	1673.4	1669.5	1651.5	1655.4	1651.5
12.5°	1651.5	1646.3	1620.5	1623.1	1616.6
15°	1621.8	1614.1	1587.0	1585.7	1574.1
17.5°	1590.8	1579.2	1547.0	1540.5	1531.5
20°	1553.4	1540.5	1499.2	1492.8	1481.2
22.5°	1512.1	1499.2	1455.4	1441.2	1432.1
25°	1470.9	1451.5	1403.8	1387.0	1372.8
27.5°	1424.4	1401.2	1350.9	1328.9	1314.7
30°	1372.8	1348.3	1294.1	1264.4	1252.8
32.5°	1322.5	1292.8	1237.3	1203.8	1188.3
35°	1267.0	1236.0	1178.0	1140.6	1122.5
37.5°	1214.1	1176.7	1117.3	1073.5	1055.4
40°	1157.3	1118.6	1056.7	1007.7	992.2
42.5°	1098.0	1058.0	993.5	947.0	922.5
45°	1037.3	999.9	929.0	877.4	858.0
47.5°	974.1	935.4	864.4	811.6	789.6
50°	914.8	872.2	798.6	744.5	725.1
52.5°	850.3	806.4	738.0	678.7	659.3
55°	787.0	745.7	673.5	615.4	594.8
57.5°	722.5	678.7	609.0	552.2	534.2
60°	660.6	615.4	545.8	489.0	469.6
62.5°	594.8	552.2	481.3	429.6	410.3
65°	532.9	489.0	420.6	369.0	349.7
67.5°	470.9	427.1	361.3	312.2	296.8
70°	407.7	363.8	299.3	259.3	243.9
72.5°	345.8	303.2	243.9	207.7	198.7
75°	283.8	245.1	191.0	162.6	153.5
77.5°	220.6	189.7	144.5	122.6	114.8
80°	167.7	136.8	100.6	89.0	86.4
82.5°	116.1	89.0	67.1	63.2	61.9
85°	71.0	47.7	41.3	40.0	38.7
87.5°	29.7	20.6	19.4	19.4	18.1
90°	1.0	8.9	15.8	20.8	23.7
92.5°	29.6	34.6	43.5	50.4	52.4
95°	64.2	66.2	76.1	83.0	85.0
97.5°	98.8	99.8	113.6	119.6	120.6
100°	138.3	138.3	151.2	160.1	162.1
102.5°	180.8	185.8	190.7	200.6	203.6
105°	225.3	230.3	236.2	242.1	245.1
107.5°	273.7	278.7	283.6	286.6	286.6
110°	324.1	329.1	332.0	335.0	334.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.5	377.5	381.4	382.4	380.5
115°	425.9	429.9	431.8	430.9	429.9
117.5°	477.3	478.3	480.3	481.3	477.3
120°	524.7	529.7	530.7	530.7	526.7
122.5°	576.1	577.1	580.1	579.1	576.1
125°	621.6	627.5	628.5	626.5	625.5
127.5°	672.0	674.9	675.9	674.9	673.0
130°	716.4	721.4	723.4	722.4	720.4
132.5°	760.9	769.8	768.8	767.8	764.9
135°	808.4	814.3	815.3	815.3	811.3
137.5°	852.8	858.7	860.7	861.7	856.8
140°	895.3	900.3	903.2	905.2	900.3
142.5°	937.8	941.8	945.7	946.7	941.8
145°	979.3	983.3	986.2	986.2	983.3
147.5°	1017.8	1020.8	1022.8	1025.8	1017.8
150°	1056.4	1055.4	1059.4	1059.4	1057.4
152.5°	1088.0	1090.0	1091.0	1093.9	1090.0
155°	1120.6	1120.6	1121.6	1125.6	1120.6
157.5°	1150.3	1148.3	1149.3	1153.2	1146.3
160°	1176.0	1173.0	1174.0	1177.9	1173.0
162.5°	1198.7	1196.7	1196.7	1201.7	1195.7
165°	1218.5	1216.5	1217.5	1221.4	1215.5
167.5°	1236.2	1232.3	1232.3	1238.2	1232.3
170°	1250.1	1246.1	1246.1	1252.1	1245.1
172.5°	1260.0	1256.0	1256.0	1261.9	1256.0
175°	1266.9	1262.9	1262.9	1268.9	1261.9
177.5°	1271.8	1267.9	1266.9	1272.8	1265.9
180°	1269.8	1269.8	1269.8	1269.8	1269.8

(END OF REPORT)