

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: P1034961

Luminaire Tested: S125DIW-B1090D1050UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034961
REPORT IS A COMBINATION OF REPORTS P1002773 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1050UB40-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

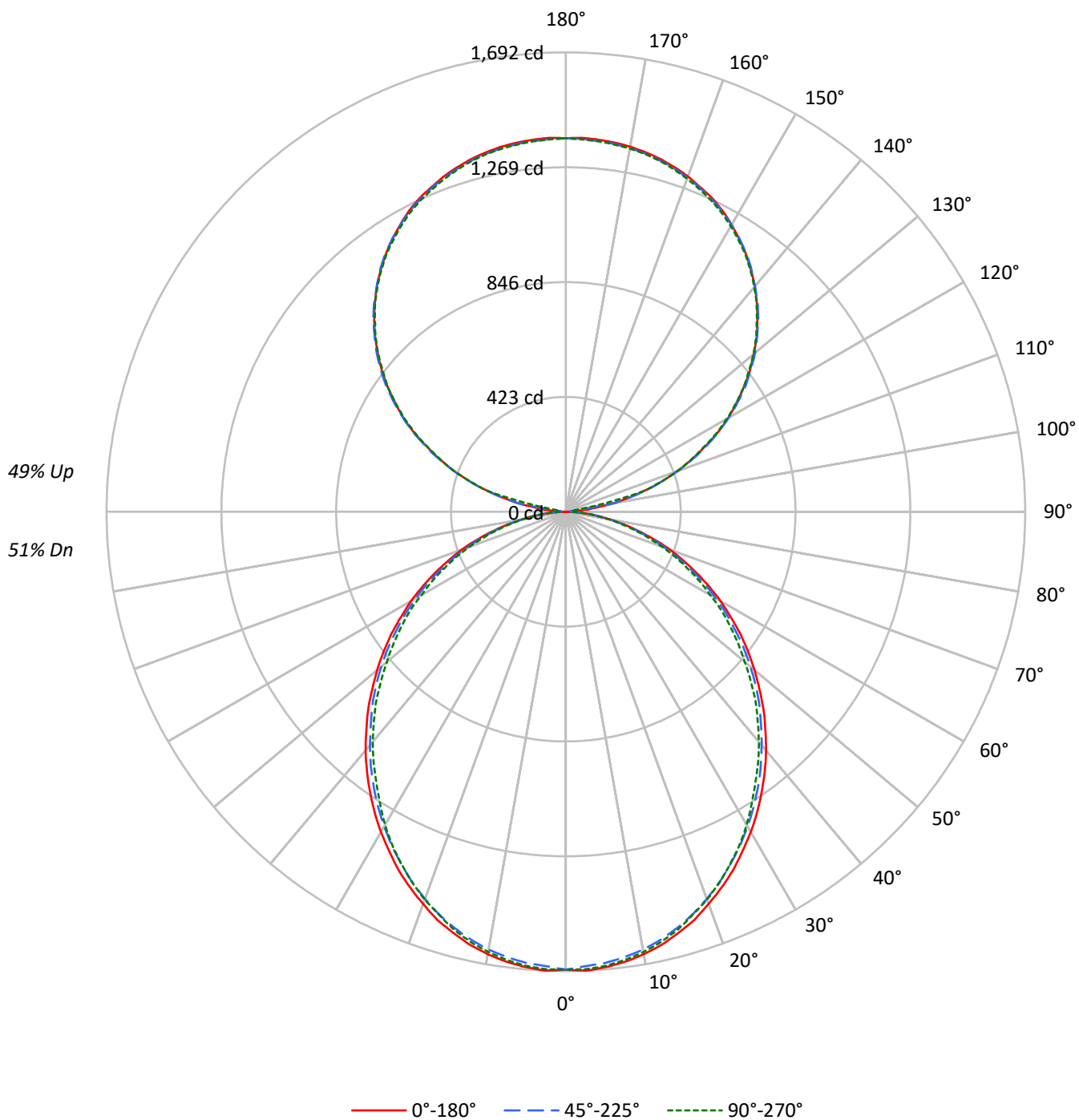
Lumens per Lamp: N/A
Luminaire Lumens: 8618.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1034961

CATALOG NUMBER: S125DIW-B1090D1050UB40-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1034961

CATALOG NUMBER: S125DIW-B1090D1050UB40-4F0-XX-W2A-F

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	37	34
4	74	64	56	49	68	59	52	47	50	45	41	42	38	35	35	32	30
5	68	57	48	42	63	53	45	40	45	39	35	38	34	30	32	28	26
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23
7	58	46	38	32	54	43	36	30	37	31	27	31	27	24	26	23	20
8	54	42	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10807	10807	10807
5°	10807	10556	10576
10°	10717	10314	10281
15°	10577	10024	9935
20°	10387	9689	9537
25°	10183	9322	9111
30°	9936	8941	8662
35°	9673	8542	8159
40°	9401	8119	7711
45°	9107	7707	7237
50°	8783	7240	6683
55°	8462	6724	6174
60°	8081	6181	5582
65°	7623	5553	4969
70°	7157	4830	4262
75°	6376	3977	3446
80°	5432	2971	2535
85°	4197	1756	1397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9107 cd/sqm

TEST NUMBER: P1034961

CATALOG NUMBER: S125DIW-B1090D1050UB40-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.8
10°-20°	449.6	5.2
20°-30°	663.7	7.7
30°-40°	774.4	9.0
40°-50°	777.7	9.0
50°-60°	682.7	7.9
60°-70°	508.5	5.9
70°-80°	290.4	3.4
80°-90°	85.9	1.0
90°-100°	46.7	0.5
100°-110°	310.5	3.6
110°-120°	559.1	6.5
120°-130°	717.7	8.3
130°-140°	771.9	9.0
140°-150°	724.4	8.4
150°-160°	586.0	6.8
160°-170°	379.0	4.4
170°-180°	130.7	1.5
0°-30°	1272.4	14.8
0°-40°	2046.8	23.8
0°-60°	3507.2	40.7
0°-90°	4392.0	51.0
90°-120°	916.3	10.6
90°-150°	3130.3	36.3
90°-180°	4226.0	49.0
0°-180°	8618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1684	1681	1668	1680	1679	160
15°	1605	1601	1587	1593	1593	453
25°	1457	1450	1433	1436	1432	670
35°	1258	1253	1234	1228	1217	787
45°	1030	1025	1009	993	989	794
55°	785	781	762	750	741	700
65°	530	527	512	500	495	525
75°	282	279	272	268	263	300
85°	73	75	75	73	71	80
90°	1	9	16	21	24	8
95°	58	55	16	21	21	71
105°	300	304	304	304	303	318
115°	563	568	569	565	559	558
125°	801	808	808	804	801	715
135°	998	1004	1002	1000	994	770
145°	1158	1160	1160	1161	1154	724
155°	1275	1269	1271	1274	1266	587
165°	1345	1339	1340	1346	1338	380
175°	1376	1370	1371	1379	1370	131
180°	1376	1376	1376	1376	1376	

TEST NUMBER: P1034961

CATALOG NUMBER: S125DIW-B1090D1050UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1692.0	1688.0	1674.7	1688.0	1686.7
5°	1684.0	1681.3	1668.0	1680.0	1678.7
7.5°	1672.0	1669.3	1654.6	1666.7	1665.3
10°	1654.6	1652.0	1637.3	1648.0	1646.6
12.5°	1633.3	1628.0	1614.6	1622.6	1622.6
15°	1605.3	1601.3	1586.6	1593.3	1593.3
17.5°	1575.9	1569.2	1554.6	1562.6	1555.9
20°	1537.2	1534.6	1517.2	1526.5	1519.9
22.5°	1498.5	1493.2	1477.2	1482.5	1478.5
25°	1457.2	1450.5	1433.1	1435.8	1431.8
27.5°	1409.1	1405.1	1387.8	1389.1	1385.1
30°	1362.4	1358.4	1338.4	1335.7	1331.7
32.5°	1311.7	1305.0	1287.7	1282.4	1274.3
35°	1258.3	1253.0	1234.3	1227.6	1217.0
37.5°	1203.6	1197.0	1179.6	1170.3	1163.6
40°	1147.6	1140.9	1122.2	1110.2	1106.2
42.5°	1087.5	1082.2	1063.5	1052.8	1046.2
45°	1030.2	1024.8	1008.8	992.8	988.8
47.5°	967.4	968.8	948.8	932.7	923.4
50°	907.4	903.4	887.4	870.0	860.7
52.5°	846.0	843.3	826.0	811.3	800.6
55°	784.6	780.6	761.9	749.9	740.6
57.5°	719.2	717.9	701.9	685.9	681.9
60°	657.9	652.5	637.8	624.5	615.2
62.5°	593.8	589.8	577.8	563.1	556.4
65°	529.8	527.1	512.4	500.4	495.1
67.5°	467.0	461.7	451.0	440.4	437.7
70°	408.3	401.7	389.6	381.6	376.3
72.5°	344.3	340.3	333.6	324.3	318.9
75°	281.6	278.9	272.2	268.2	262.9
77.5°	222.8	221.5	217.5	214.8	210.8
80°	168.1	168.1	165.5	164.1	161.5
82.5°	120.1	117.4	117.4	114.8	114.8
85°	73.4	74.7	74.7	73.4	70.7
87.5°	36.0	36.0	34.7	34.7	32.0
90°	1.0	9.2	16.3	21.4	24.5
92.5°	19.4	10.2	16.3	21.4	22.4
95°	58.1	55.1	16.3	21.4	21.4
97.5°	109.1	115.2	18.4	20.4	21.4
100°	170.3	173.4	177.4	25.5	21.4
102.5°	232.5	236.6	238.6	240.7	155.0
105°	299.8	303.9	303.9	303.9	302.9
107.5°	369.2	369.2	371.2	372.2	368.2
110°	436.5	436.5	438.5	435.5	436.5

TEST NUMBER: P1034961

CATALOG NUMBER: S125DIW-B1090D1050UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	499.7	502.8	503.8	499.7	497.7
115°	562.9	568.0	569.1	565.0	558.9
117.5°	629.2	629.2	633.3	627.2	625.1
120°	690.4	689.4	692.5	690.4	685.3
122.5°	744.5	749.6	750.6	748.5	742.4
125°	800.6	807.7	807.7	803.6	800.6
127.5°	854.6	859.7	858.7	856.6	848.5
130°	903.6	908.7	909.7	906.6	901.5
132.5°	952.5	958.6	955.6	955.6	950.5
135°	998.4	1004.5	1002.5	1000.4	994.3
137.5°	1041.2	1047.4	1045.3	1045.3	1040.2
140°	1083.0	1085.1	1084.1	1086.1	1080.0
142.5°	1120.8	1121.8	1123.8	1123.8	1117.7
145°	1157.5	1159.5	1159.5	1160.6	1154.4
147.5°	1190.1	1190.1	1191.1	1192.2	1185.0
150°	1220.7	1218.7	1220.7	1222.8	1214.6
152.5°	1250.3	1245.2	1247.2	1249.3	1242.1
155°	1274.8	1268.7	1270.7	1273.8	1265.6
157.5°	1294.1	1291.1	1291.1	1294.1	1286.0
160°	1314.5	1308.4	1309.4	1313.5	1305.4
162.5°	1330.9	1324.7	1325.8	1331.9	1322.7
165°	1345.1	1339.0	1340.0	1346.2	1338.0
167.5°	1356.4	1350.2	1351.3	1358.4	1349.2
170°	1365.5	1358.4	1359.4	1367.6	1358.4
172.5°	1371.7	1364.5	1366.6	1373.7	1364.5
175°	1375.7	1369.6	1370.6	1378.8	1369.6
177.5°	1378.8	1372.7	1373.7	1380.8	1372.7
180°	1375.7	1375.7	1375.7	1375.7	1375.7

(END OF REPORT)