

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: P1034956

Luminaire Tested: S125DIW-B1090D1050UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034956
REPORT IS A COMBINATION OF REPORTS P1002765 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1050UB35-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

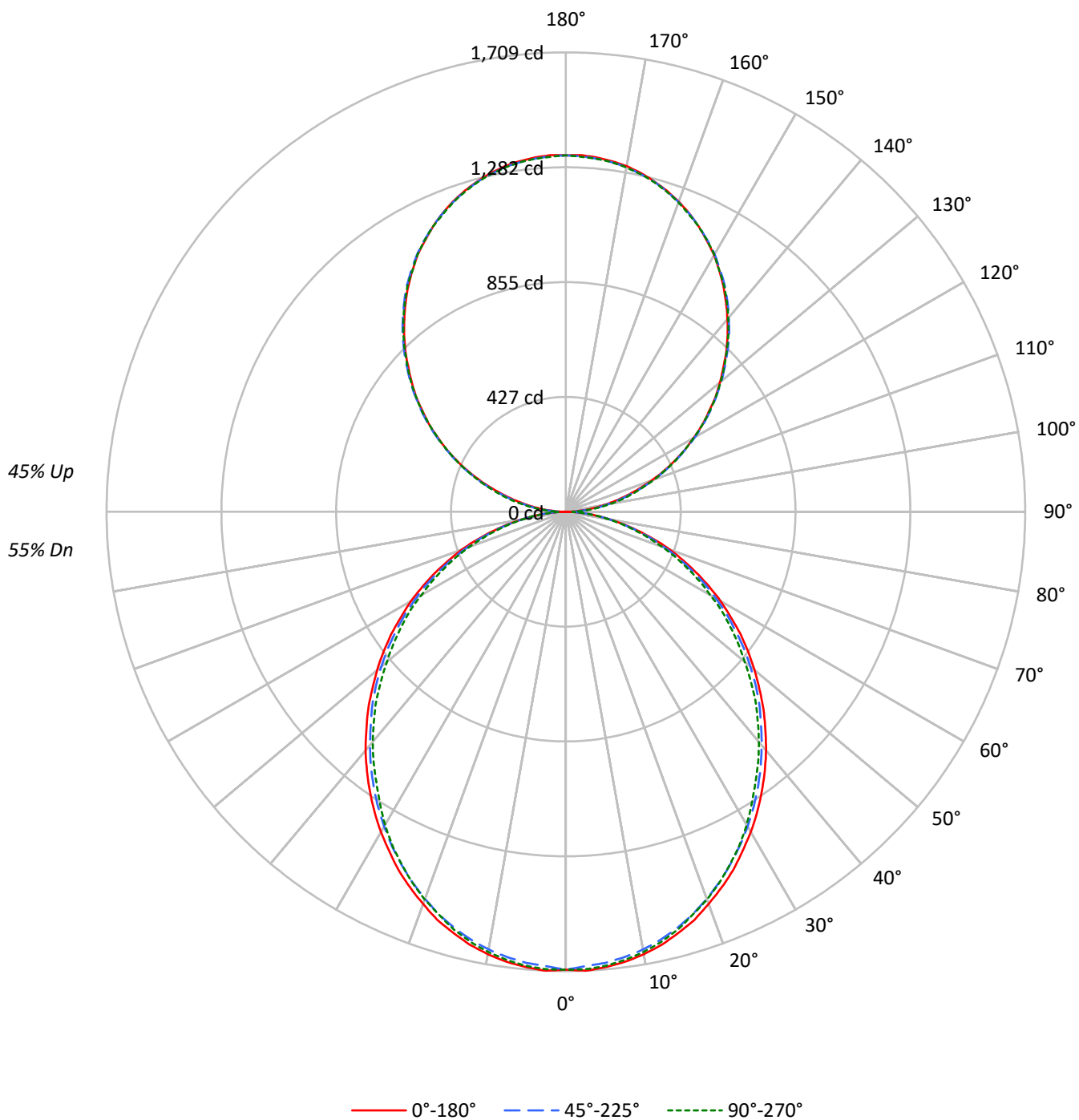
Lumens per Lamp: N/A
Luminaire Lumens: 8137.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	86	86	86	73	73	73	60	60	60
1	99	94	90	87	91	88	84	81	75	73	70	64	62	60	53	52	51
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	47	45	43
3	82	72	65	59	76	67	61	56	58	53	49	49	46	43	41	39	36
4	75	64	56	50	69	60	53	47	52	46	42	44	40	36	37	34	31
5	69	57	49	43	64	53	46	41	46	40	36	40	35	32	33	30	27
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	24	28	24	21
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10915	10915	10915
5°	10916	10662	10682
10°	10825	10417	10384
15°	10683	10125	10034
20°	10491	9786	9632
25°	10285	9416	9202
30°	10036	9031	8749
35°	9769	8627	8241
40°	9495	8200	7789
45°	9198	7784	7309
50°	8871	7313	6750
55°	8547	6792	6235
60°	8162	6243	5637
65°	7700	5608	5018
70°	7229	4878	4305
75°	6440	4017	3480
80°	5487	3000	2560
85°	4237	1775	1410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.0
10°-20°	454.1	5.6
20°-30°	670.4	8.2
30°-40°	782.1	9.6
40°-50°	785.5	9.7
50°-60°	689.5	8.5
60°-70°	513.6	6.3
70°-80°	293.3	3.6
80°-90°	86.7	1.1
90°-100°	88.2	1.1
100°-110°	262.0	3.2
110°-120°	444.3	5.5
120°-130°	584.9	7.2
130°-140°	655.4	8.1
140°-150°	642.4	7.9
150°-160°	539.6	6.6
160°-170°	358.7	4.4
170°-180°	125.5	1.5
0°-30°	1285.2	15.8
0°-40°	2067.3	25.4
0°-60°	3542.4	43.5
0°-90°	4436.0	54.5
90°-120°	794.4	9.8
90°-150°	2677.1	32.9
90°-180°	3701.0	45.5
0°-180°	8137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1701	1698	1685	1697	1696	161
15°	1621	1617	1602	1609	1609	457
25°	1472	1465	1448	1450	1446	677
35°	1271	1266	1247	1240	1229	795
45°	1040	1035	1019	1003	999	802
55°	792	788	770	757	748	707
65°	535	532	518	505	500	531
75°	284	282	275	271	266	303
85°	74	76	76	74	71	81
90°	1	9	16	22	25	10
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°	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1709.0	1704.9	1691.5	1704.9	1703.6
5°	1700.9	1698.2	1684.7	1696.8	1695.5
7.5°	1688.8	1686.1	1671.2	1683.4	1682.0
10°	1671.2	1668.5	1653.7	1664.5	1663.1
12.5°	1649.7	1644.3	1630.8	1638.9	1638.9
15°	1621.4	1617.3	1602.5	1609.2	1609.2
17.5°	1591.7	1585.0	1570.2	1578.2	1571.5
20°	1552.6	1549.9	1532.4	1541.8	1535.1
22.5°	1513.5	1508.2	1492.0	1497.4	1493.3
25°	1471.8	1465.0	1447.5	1450.2	1446.2
27.5°	1423.2	1419.2	1401.7	1403.0	1399.0
30°	1376.1	1372.0	1351.8	1349.1	1345.1
32.5°	1324.9	1318.1	1300.6	1295.2	1287.1
35°	1270.9	1265.6	1246.7	1239.9	1229.2
37.5°	1215.7	1208.9	1191.4	1182.0	1175.3
40°	1159.1	1152.3	1133.5	1121.3	1117.3
42.5°	1098.4	1093.0	1074.2	1063.4	1056.7
45°	1040.5	1035.1	1018.9	1002.7	998.7
47.5°	977.1	978.5	958.3	942.1	932.7
50°	916.5	912.4	896.3	878.7	869.3
52.5°	854.5	851.8	834.3	819.4	808.7
55°	792.5	788.4	769.6	757.4	748.0
57.5°	726.4	725.1	708.9	692.8	688.7
60°	664.5	659.1	644.2	630.8	621.3
62.5°	599.8	595.7	583.6	568.8	562.0
65°	535.1	532.4	517.5	505.4	500.0
67.5°	471.7	466.3	455.5	444.8	442.1
70°	412.4	405.7	393.5	385.5	380.1
72.5°	347.7	343.7	336.9	327.5	322.1
75°	284.4	281.7	274.9	270.9	265.5
77.5°	225.1	223.7	219.7	217.0	212.9
80°	169.8	169.8	167.1	165.8	163.1
82.5°	121.3	118.6	118.6	115.9	115.9
85°	74.1	75.5	75.5	74.1	71.4
87.5°	36.4	36.4	35.0	35.0	32.3
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)