

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: P1035023

Luminaire Tested: S125DIW-B1090D1560UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035023
REPORT IS A COMBINATION OF REPORTS P1002912 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1560UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

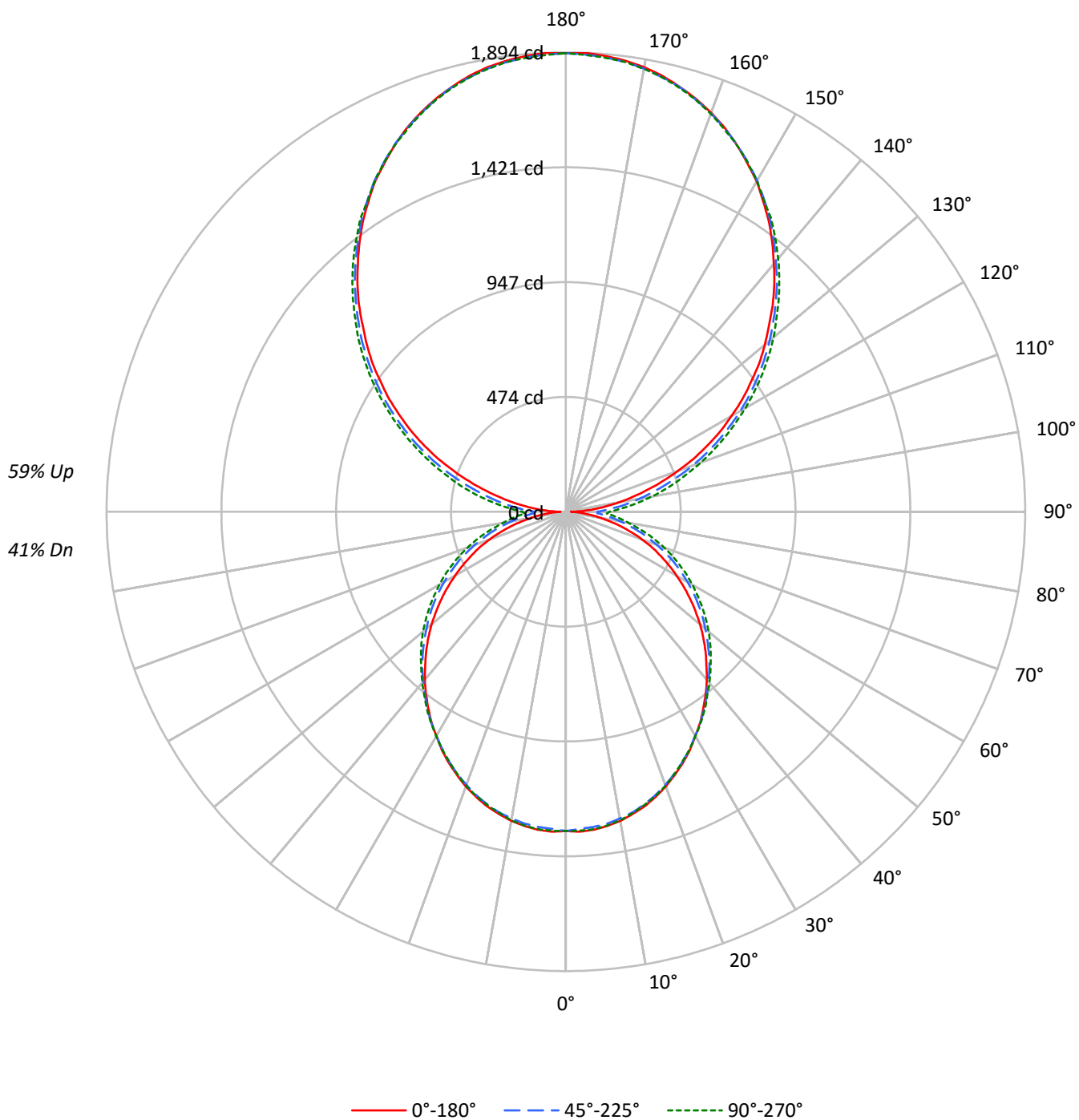
Lumens per Lamp: N/A
Luminaire Lumens: 9357.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 99
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48
1	95	91	87	83	86	83	79	76	68	65	63	54	52	51	41	40	39
2	86	79	72	67	78	72	66	62	59	55	52	47	44	42	36	34	32
3	79	69	62	56	71	63	57	51	52	47	43	41	38	35	32	29	27
4	72	61	53	47	65	56	49	43	46	41	36	37	33	30	28	26	23
5	66	54	46	40	60	50	42	37	41	35	31	33	29	26	25	23	20
6	61	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	32	26	47	36	29	25	30	25	21	25	20	18	19	16	14
9	48	36	28	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	14	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8432	8432	8432
5°	8446	8256	8275
10°	8382	8087	8064
15°	8280	7891	7804
20°	8143	7655	7545
25°	7980	7403	7233
30°	7782	7129	6949
35°	7598	6875	6687
40°	7410	6609	6423
45°	7198	6378	6185
50°	6994	6126	5971
55°	6749	5888	5722
60°	6481	5614	5467
65°	6202	5327	5180
70°	5881	4943	4881
75°	5375	4562	4516
80°	4712	4101	4112
85°	4059	3732	3899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.3
10°-20°	353.5	3.8
20°-30°	525.7	5.6
30°-40°	622.6	6.7
40°-50°	643.7	6.9
50°-60°	593.0	6.3
60°-70°	479.3	5.1
70°-80°	320.7	3.4
80°-90°	168.7	1.8
90°-100°	219.1	2.3
100°-110°	442.4	4.7
110°-120°	679.6	7.3
120°-130°	860.1	9.2
130°-140°	945.9	10.1
140°-150°	918.3	9.8
150°-160°	769.4	8.2
160°-170°	511.5	5.5
170°-180°	179.0	1.9
0°-30°	1003.8	10.7
0°-40°	1626.4	17.4
0°-60°	2863.1	30.6
0°-90°	3831.9	41.0
90°-120°	1341.0	14.3
90°-150°	4065.3	43.4
90°-180°	5525.0	59.0
0°-180°	9357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1316	1314	1304	1315	1314	125
15°	1257	1258	1249	1257	1252	354
25°	1142	1146	1138	1143	1137	526
35°	988	997	994	997	997	619
45°	814	828	835	844	845	628
55°	626	646	667	681	686	559
65°	431	461	492	511	516	428
75°	237	271	312	338	344	252
85°	71	114	159	187	197	74
90°	22	75	129	166	180	21
95°	112	149	208	246	258	113
105°	347	375	423	457	471	370
115°	642	657	693	715	721	635
125°	931	938	966	983	988	834
135°	1206	1214	1224	1241	1242	930
145°	1460	1464	1468	1475	1476	912
155°	1669	1669	1670	1676	1669	769
165°	1814	1811	1813	1819	1810	512
175°	1886	1880	1880	1889	1879	179
180°	1891	1891	1891	1891	1891	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1320.0	1317.4	1308.3	1317.4	1316.1
5°	1316.1	1313.5	1304.5	1314.8	1313.5
7.5°	1307.1	1305.8	1296.7	1305.8	1304.5
10°	1294.1	1294.1	1283.8	1292.9	1291.6
12.5°	1276.1	1277.4	1269.6	1276.1	1272.2
15°	1256.7	1258.0	1249.0	1256.7	1251.6
17.5°	1232.2	1234.8	1225.8	1232.2	1228.3
20°	1205.1	1207.7	1198.7	1202.5	1202.5
22.5°	1174.2	1179.3	1169.0	1174.2	1170.3
25°	1141.9	1145.8	1138.0	1143.2	1136.7
27.5°	1107.1	1112.2	1103.2	1107.1	1104.5
30°	1067.1	1074.8	1067.1	1069.6	1068.4
32.5°	1030.9	1037.4	1032.2	1034.8	1033.5
35°	988.4	997.4	993.5	997.4	997.4
37.5°	947.1	954.8	953.5	958.7	957.4
40°	904.5	914.8	913.5	918.7	921.3
42.5°	858.0	872.2	876.1	882.6	882.6
45°	814.2	828.4	834.8	843.8	845.1
47.5°	769.0	781.9	792.2	805.1	807.7
50°	722.6	736.7	750.9	765.1	769.0
52.5°	673.5	691.6	709.7	725.1	727.7
55°	625.8	646.4	667.1	681.3	686.4
57.5°	576.8	601.3	624.5	640.0	643.8
60°	527.7	553.5	579.3	598.7	602.6
62.5°	480.0	505.8	534.2	556.1	561.3
65°	431.0	460.6	491.6	511.0	516.1
67.5°	385.8	414.2	445.1	468.4	474.8
70°	335.5	365.1	398.7	423.2	431.0
72.5°	286.4	317.4	354.8	381.9	387.1
75°	237.4	271.0	312.2	338.1	344.5
77.5°	189.7	228.4	267.1	295.5	300.6
80°	145.8	184.5	228.4	256.8	261.9
82.5°	105.8	147.1	192.3	219.3	229.7
85°	71.0	113.5	158.7	187.1	197.4
87.5°	45.2	86.4	130.3	160.0	169.0
90°	22.1	75.1	129.3	166.4	179.8
92.5°	62.2	107.0	165.3	204.0	216.1
95°	112.4	148.9	207.5	246.2	258.1
97.5°	162.6	195.1	258.2	294.1	304.7
100°	220.2	247.3	307.7	348.1	358.7
102.5°	282.2	314.0	361.4	401.9	414.1
105°	347.1	375.1	422.7	457.3	470.7
107.5°	417.9	443.3	488.1	518.3	526.1
110°	491.6	514.5	555.0	584.0	591.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	568.1	582.7	623.5	648.1	654.2
115°	641.9	656.9	693.3	715.0	721.4
117.5°	717.2	725.1	760.3	783.7	786.8
120°	787.8	799.0	830.2	852.1	854.0
122.5°	863.0	865.8	898.5	917.8	921.0
125°	930.7	938.3	965.5	983.2	988.2
127.5°	1004.5	1007.6	1031.0	1048.9	1053.6
130°	1070.7	1076.7	1097.7	1114.3	1117.9
132.5°	1135.6	1148.8	1160.3	1176.8	1177.6
135°	1206.2	1213.8	1224.2	1241.0	1241.5
137.5°	1272.4	1280.0	1288.1	1305.0	1302.8
140°	1334.4	1341.8	1347.5	1364.6	1362.4
142.5°	1397.7	1402.3	1408.2	1421.2	1419.1
145°	1459.5	1464.1	1468.5	1475.0	1475.7
147.5°	1515.6	1520.0	1522.9	1530.0	1520.8
150°	1573.0	1571.5	1577.4	1577.4	1575.7
152.5°	1620.1	1623.0	1624.5	1628.9	1623.0
155°	1668.6	1668.6	1670.1	1676.0	1668.6
157.5°	1712.8	1709.8	1711.3	1717.2	1706.9
160°	1751.0	1746.6	1748.1	1754.0	1746.6
162.5°	1784.9	1781.9	1781.9	1789.3	1780.4
165°	1814.3	1811.3	1812.8	1818.7	1809.9
167.5°	1840.8	1834.9	1834.9	1843.7	1834.9
170°	1861.4	1855.5	1855.5	1864.3	1854.0
172.5°	1876.1	1870.2	1870.2	1879.0	1870.2
175°	1886.4	1880.5	1880.5	1889.3	1879.0
177.5°	1893.7	1887.9	1886.4	1895.2	1884.9
180°	1890.8	1890.8	1890.8	1890.8	1890.8

(END OF REPORT)