

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: P1035090

Luminaire Tested: S125DIW-B1270D1050UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035090
REPORT IS A COMBINATION OF REPORTS P1003055 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1050UB27-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

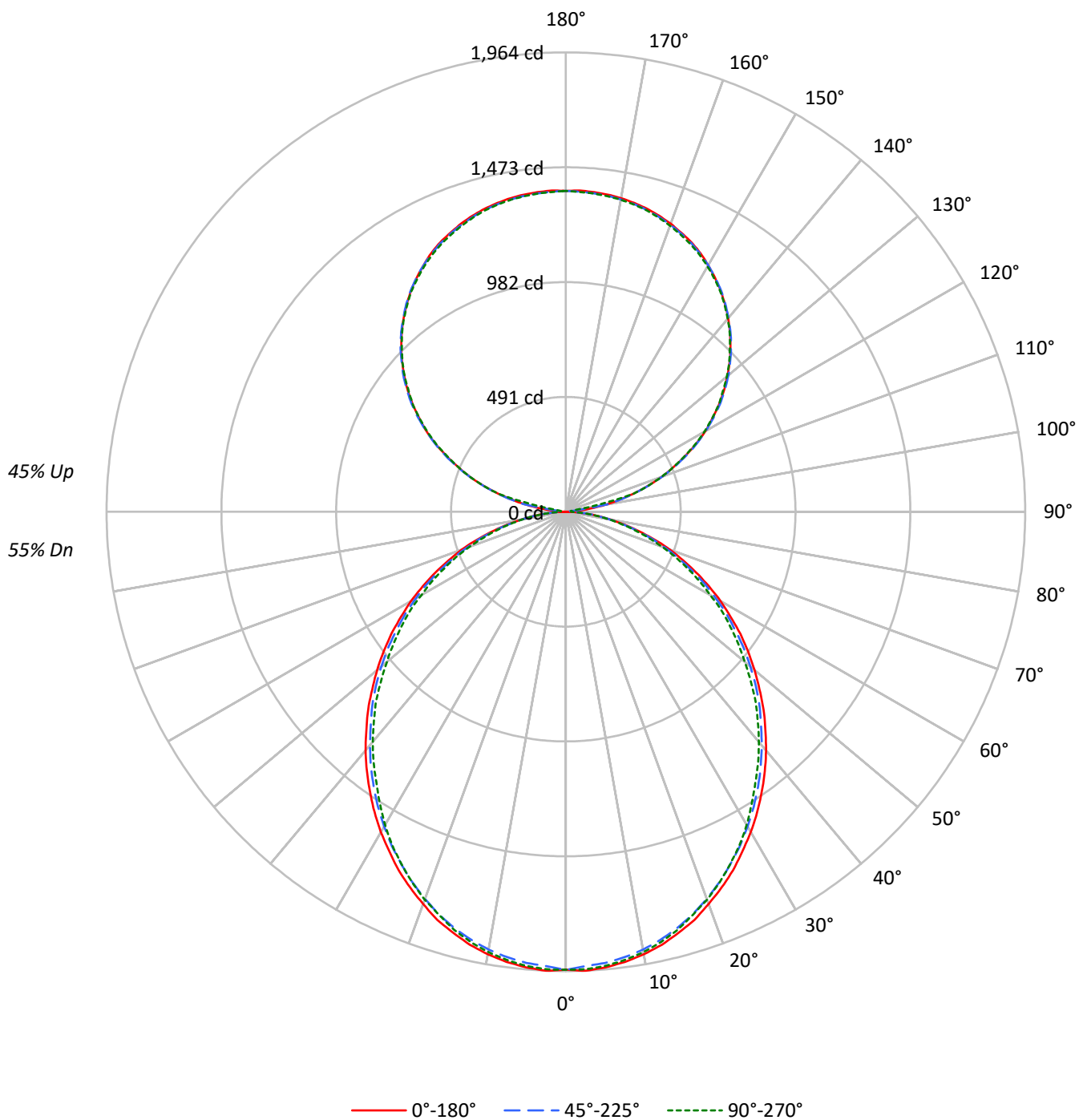
Lumens per Lamp: N/A
Luminaire Lumens: 9312.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
Input Voltage (V):
Input Current (A_{in}): 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	92	88	84	81	75	73	71	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	50	46	43	42	39	36
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	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	25	28	24	21
8	55	42	34	29	50	39	32	27	34	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12544	12544	12544
5°	12545	12253	12277
10°	12442	11972	11935
15°	12278	11637	11532
20°	12057	11247	11070
25°	11820	10822	10576
30°	11534	10379	10055
35°	11228	9915	9471
40°	10913	9424	8952
45°	10571	8946	8400
50°	10195	8404	7757
55°	9823	7806	7166
60°	9380	7176	6479
65°	8848	6446	5768
70°	8309	5607	4947
75°	7400	4617	4000
80°	6308	3449	2942
85°	4871	2039	1622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	2.0
10°-20°	521.9	5.6
20°-30°	770.4	8.3
30°-40°	898.9	9.7
40°-50°	902.8	9.7
50°-60°	792.5	8.5
60°-70°	590.3	6.3
70°-80°	337.1	3.6
80°-90°	99.4	1.1
90°-100°	46.6	0.5
100°-110°	309.6	3.3
110°-120°	557.5	6.0
120°-130°	715.6	7.7
130°-140°	769.7	8.3
140°-150°	722.4	7.8
150°-160°	584.3	6.3
160°-170°	377.9	4.1
170°-180°	130.3	1.4
0°-30°	1477.1	15.9
0°-40°	2376.0	25.5
0°-60°	4071.3	43.7
0°-90°	5098.0	54.7
90°-120°	913.7	9.8
90°-150°	3121.4	33.5
90°-180°	4214.0	45.3
0°-180°	9312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1955	1952	1936	1950	1949	186
15°	1863	1859	1842	1850	1850	525
25°	1692	1684	1664	1667	1662	778
35°	1461	1454	1433	1425	1413	914
45°	1196	1190	1171	1152	1148	921
55°	911	906	884	870	860	813
65°	615	612	595	581	575	610
75°	327	324	316	311	305	348
85°	85	87	87	85	82	93
90°	1	9	16	21	24	9
95°	58	55	16	21	21	71
105°	299	303	303	303	302	317
115°	561	566	567	563	557	556
125°	798	805	805	801	798	713
135°	996	1002	1000	998	992	768
145°	1154	1156	1156	1157	1151	722
155°	1271	1265	1267	1270	1262	586
165°	1341	1335	1336	1342	1334	379
175°	1372	1366	1367	1375	1366	131
180°	1372	1372	1372	1372	1372	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.9	1957.9	1957.9	1957.9	1957.9
2.5°	1964.1	1959.5	1944.0	1959.5	1957.9
5°	1954.8	1951.7	1936.2	1950.2	1948.6
7.5°	1940.9	1937.8	1920.8	1934.7	1933.1
10°	1920.8	1917.7	1900.6	1913.0	1911.5
12.5°	1896.0	1889.8	1874.3	1883.6	1883.6
15°	1863.4	1858.8	1841.8	1849.5	1849.5
17.5°	1829.4	1821.6	1804.6	1813.9	1806.1
20°	1784.4	1781.3	1761.2	1772.0	1764.3
22.5°	1739.5	1733.3	1714.7	1720.9	1716.3
25°	1691.5	1683.8	1663.6	1666.7	1662.1
27.5°	1635.7	1631.1	1611.0	1612.5	1607.9
30°	1581.5	1576.9	1553.6	1550.5	1545.9
32.5°	1522.7	1514.9	1494.8	1488.6	1479.3
35°	1460.7	1454.5	1432.8	1425.1	1412.7
37.5°	1397.2	1389.4	1369.3	1358.5	1350.7
40°	1332.1	1324.4	1302.7	1288.8	1284.1
42.5°	1262.4	1256.2	1234.5	1222.2	1214.4
45°	1195.8	1189.6	1171.0	1152.5	1147.8
47.5°	1123.0	1124.6	1101.3	1082.7	1071.9
50°	1053.3	1048.7	1030.1	1009.9	999.1
52.5°	982.1	979.0	958.8	941.8	929.4
55°	910.8	906.2	884.5	870.5	859.7
57.5°	834.9	833.4	814.8	796.2	791.5
60°	763.7	757.5	740.4	724.9	714.1
62.5°	689.3	684.7	670.7	653.7	645.9
65°	614.9	611.9	594.8	580.9	574.7
67.5°	542.1	536.0	523.6	511.2	508.1
70°	474.0	466.2	452.3	443.0	436.8
72.5°	399.6	395.0	387.2	376.4	370.2
75°	326.8	323.7	316.0	311.3	305.2
77.5°	258.7	257.1	252.5	249.4	244.7
80°	195.2	195.2	192.1	190.5	187.4
82.5°	139.4	136.3	136.3	133.2	133.2
85°	85.2	86.7	86.7	85.2	82.1
87.5°	41.8	41.8	40.3	40.3	37.2
90°	1.0	9.2	16.3	21.4	24.4
92.5°	19.3	10.2	16.3	21.4	22.4
95°	58.0	54.9	16.3	21.4	21.4
97.5°	108.8	114.9	18.3	20.3	21.4
100°	169.8	172.9	176.9	25.4	21.4
102.5°	231.9	235.9	238.0	240.0	154.6
105°	299.0	303.0	303.0	303.0	302.0
107.5°	368.1	368.1	370.2	371.2	367.1
110°	435.2	435.2	437.3	434.2	435.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	498.3	501.3	502.4	498.3	496.3
115°	561.3	566.4	567.4	563.4	557.3
117.5°	627.4	627.4	631.5	625.4	623.4
120°	688.5	687.4	690.5	688.5	683.4
122.5°	742.4	747.4	748.5	746.4	740.3
125°	798.3	805.4	805.4	801.3	798.3
127.5°	852.2	857.3	856.2	854.2	846.1
130°	901.0	906.1	907.1	904.0	899.0
132.5°	949.8	955.9	952.9	952.9	947.8
135°	995.6	1001.7	999.6	997.6	991.5
137.5°	1038.3	1044.4	1042.3	1042.3	1037.3
140°	1080.0	1082.0	1081.0	1083.0	1076.9
142.5°	1117.6	1118.6	1120.6	1120.6	1114.5
145°	1154.2	1156.2	1156.2	1157.3	1151.2
147.5°	1186.7	1186.7	1187.8	1188.8	1181.7
150°	1217.3	1215.2	1217.3	1219.3	1211.2
152.5°	1246.7	1241.7	1243.7	1245.7	1238.6
155°	1271.2	1265.1	1267.1	1270.1	1262.0
157.5°	1290.5	1287.4	1287.4	1290.5	1282.3
160°	1310.8	1304.7	1305.7	1309.8	1301.7
162.5°	1327.1	1321.0	1322.0	1328.1	1318.9
165°	1341.3	1335.2	1336.2	1342.3	1334.2
167.5°	1352.5	1346.4	1347.4	1354.5	1345.4
170°	1361.7	1354.5	1355.6	1363.7	1354.5
172.5°	1367.8	1360.6	1362.7	1369.8	1360.6
175°	1371.8	1365.7	1366.7	1374.9	1365.7
177.5°	1374.9	1368.8	1369.8	1376.9	1368.8
180°	1371.8	1371.8	1371.8	1371.8	1371.8

(END OF REPORT)