

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: P1035109

Luminaire Tested: S125DIW-B1270D1050UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035109
REPORT IS A COMBINATION OF REPORTS P1003104 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1050UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

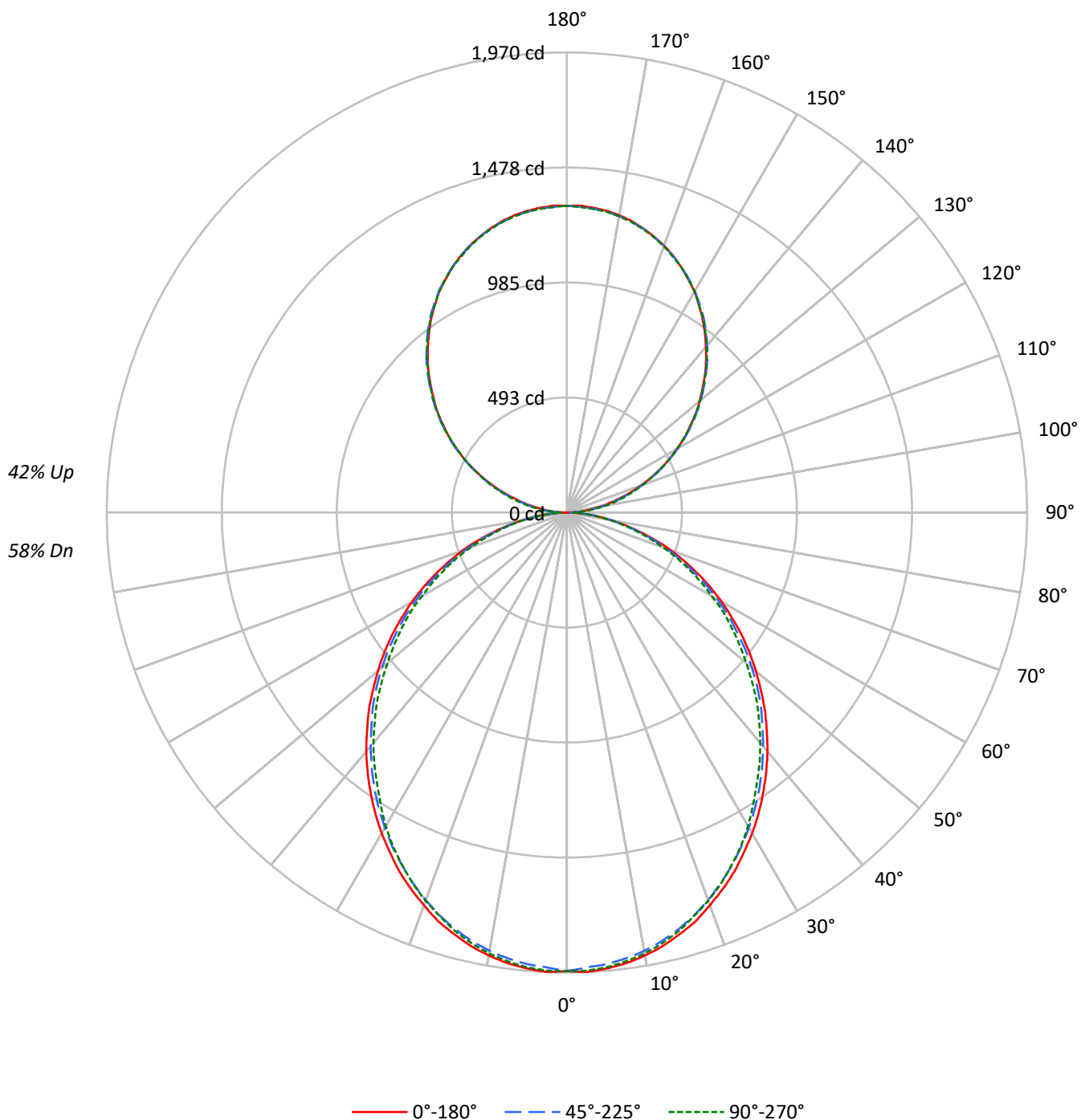
Lumens per Lamp: N/A
Luminaire Lumens: 8778.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
Input Voltage (V):
Input Current (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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	100	95	91	88	93	89	85	82	77	74	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	67	67	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	56	60	54	50	51	47	44	44	41	38
4	76	65	57	50	70	61	53	48	53	47	43	46	41	38	39	36	33
5	69	58	49	43	65	54	47	41	47	41	37	41	36	33	35	32	29
6	64	52	43	38	59	49	41	36	43	37	32	37	32	29	32	28	25
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	32	27	23	29	24	20	25	21	18
10	48	36	28	23	45	34	27	22	30	24	20	26	22	19	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12582	12582	12582
5°	12582	12289	12313
10°	12478	12008	11970
15°	12314	11671	11566
20°	12093	11280	11103
25°	11855	10854	10607
30°	11568	10410	10084
35°	11262	9944	9498
40°	10945	9452	8978
45°	10602	8973	8425
50°	10225	8429	7780
55°	9852	7829	7187
60°	9407	7197	6498
65°	8875	6465	5785
70°	8333	5623	4961
75°	7422	4630	4011
80°	6324	3458	2951
85°	4883	2046	1626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10602 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	2.1
10°-20°	523.4	6.0
20°-30°	772.7	8.8
30°-40°	901.5	10.3
40°-50°	905.5	10.3
50°-60°	794.8	9.1
60°-70°	592.0	6.7
70°-80°	338.1	3.9
80°-90°	99.6	1.1
90°-100°	87.3	1.0
100°-110°	259.4	3.0
110°-120°	440.0	5.0
120°-130°	579.2	6.6
130°-140°	649.0	7.4
140°-150°	636.2	7.2
150°-160°	534.4	6.1
160°-170°	355.2	4.0
170°-180°	124.3	1.4
0°-30°	1481.4	16.9
0°-40°	2383.0	27.1
0°-60°	4083.2	46.5
0°-90°	5113.0	58.2
90°-120°	786.7	9.0
90°-150°	2651.1	30.2
90°-180°	3665.0	41.8
0°-180°	8778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1961	1958	1942	1956	1954	186
15°	1869	1864	1847	1855	1855	527
25°	1696	1689	1668	1672	1667	781
35°	1465	1459	1437	1429	1417	916
45°	1199	1193	1174	1156	1151	924
55°	914	909	887	873	862	815
65°	617	614	597	583	576	612
75°	328	325	317	312	306	349
85°	85	87	87	85	82	94
90°	1	9	16	22	24	10
95°	66	68	79	86	88	69
105°	233	238	244	250	253	248
115°	440	444	447	446	444	436
125°	643	649	650	648	647	576
135°	836	842	843	843	839	644
145°	1013	1017	1020	1020	1017	633
155°	1159	1159	1160	1164	1159	534
165°	1260	1258	1259	1263	1257	356
175°	1310	1306	1306	1312	1305	125
180°	1313	1313	1313	1313	1313	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1969.9	1965.2	1949.7	1965.2	1963.7
5°	1960.6	1957.5	1941.9	1955.9	1954.4
7.5°	1946.6	1943.5	1926.4	1940.4	1938.8
10°	1926.4	1923.3	1906.2	1918.6	1917.1
12.5°	1901.5	1895.3	1879.8	1889.1	1889.1
15°	1868.9	1864.3	1847.2	1854.9	1854.9
17.5°	1834.7	1827.0	1809.9	1819.2	1811.4
20°	1789.7	1786.6	1766.4	1777.3	1769.5
22.5°	1744.6	1738.4	1719.8	1726.0	1721.3
25°	1696.5	1688.7	1668.5	1671.6	1667.0
27.5°	1640.6	1635.9	1615.7	1617.2	1612.6
30°	1586.2	1581.5	1558.2	1555.1	1550.4
32.5°	1527.1	1519.4	1499.2	1493.0	1483.6
35°	1465.0	1458.8	1437.0	1429.3	1416.8
37.5°	1401.3	1393.5	1373.3	1362.5	1354.7
40°	1336.1	1328.3	1306.5	1292.6	1287.9
42.5°	1266.1	1259.9	1238.2	1225.8	1218.0
45°	1199.3	1193.1	1174.5	1155.8	1151.2
47.5°	1126.3	1127.9	1104.6	1085.9	1075.1
50°	1056.4	1051.8	1033.1	1012.9	1002.0
52.5°	985.0	981.8	961.6	944.6	932.1
55°	913.5	908.8	887.1	873.1	862.2
57.5°	837.4	835.8	817.2	798.5	793.9
60°	765.9	759.7	742.6	727.1	716.2
62.5°	691.3	686.7	672.7	655.6	647.8
65°	616.8	613.7	596.6	582.6	576.4
67.5°	543.7	537.5	525.1	512.7	509.6
70°	475.4	467.6	453.6	444.3	438.1
72.5°	400.8	396.2	388.4	377.5	371.3
75°	327.8	324.7	316.9	312.3	306.0
77.5°	259.4	257.9	253.2	250.1	245.5
80°	195.7	195.7	192.6	191.1	188.0
82.5°	139.8	136.7	136.7	133.6	133.6
85°	85.4	87.0	87.0	85.4	82.3
87.5°	41.9	41.9	40.4	40.4	37.3
90°	1.0	9.2	16.4	21.5	24.5
92.5°	30.7	35.8	45.0	52.1	54.2
95°	66.4	68.5	78.7	85.8	87.9
97.5°	102.2	103.2	117.5	123.7	124.7
100°	143.1	143.1	156.4	165.6	167.6
102.5°	187.0	192.1	197.2	207.5	210.5
105°	233.0	238.1	244.2	250.4	253.4
107.5°	283.1	288.2	293.3	296.4	296.4
110°	335.2	340.3	343.4	346.4	345.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	388.3	390.4	394.5	395.5	393.4
115°	440.4	444.5	446.6	445.6	444.5
117.5°	493.6	494.6	496.7	497.7	493.6
120°	542.6	547.8	548.8	548.8	544.7
122.5°	595.8	596.8	599.9	598.8	595.8
125°	642.8	648.9	649.9	647.9	646.9
127.5°	694.9	698.0	699.0	698.0	695.9
130°	740.9	746.0	748.0	747.0	745.0
132.5°	786.9	796.1	795.1	794.0	791.0
135°	835.9	842.1	843.1	843.1	839.0
137.5°	881.9	888.1	890.1	891.1	886.0
140°	925.9	931.0	934.0	936.1	931.0
142.5°	969.8	973.9	978.0	979.0	973.9
145°	1012.7	1016.8	1019.9	1019.9	1016.8
147.5°	1052.6	1055.6	1057.7	1060.8	1052.6
150°	1092.4	1091.4	1095.5	1095.5	1093.5
152.5°	1125.1	1127.2	1128.2	1131.3	1127.2
155°	1158.9	1158.9	1159.9	1164.0	1158.9
157.5°	1189.5	1187.5	1188.5	1192.6	1185.4
160°	1216.1	1213.0	1214.0	1218.1	1213.0
162.5°	1239.6	1237.5	1237.5	1242.7	1236.5
165°	1260.0	1258.0	1259.0	1263.1	1257.0
167.5°	1278.4	1274.3	1274.3	1280.5	1274.3
170°	1292.7	1288.6	1288.6	1294.8	1287.6
172.5°	1303.0	1298.9	1298.9	1305.0	1298.9
175°	1310.1	1306.0	1306.0	1312.1	1305.0
177.5°	1315.2	1311.1	1310.1	1316.2	1309.1
180°	1313.2	1313.2	1313.2	1313.2	1313.2

(END OF REPORT)