

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: P1034944

Luminaire Tested: S125DIW-B1090D1050UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034944
REPORT IS A COMBINATION OF REPORTS P1002726 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1050UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

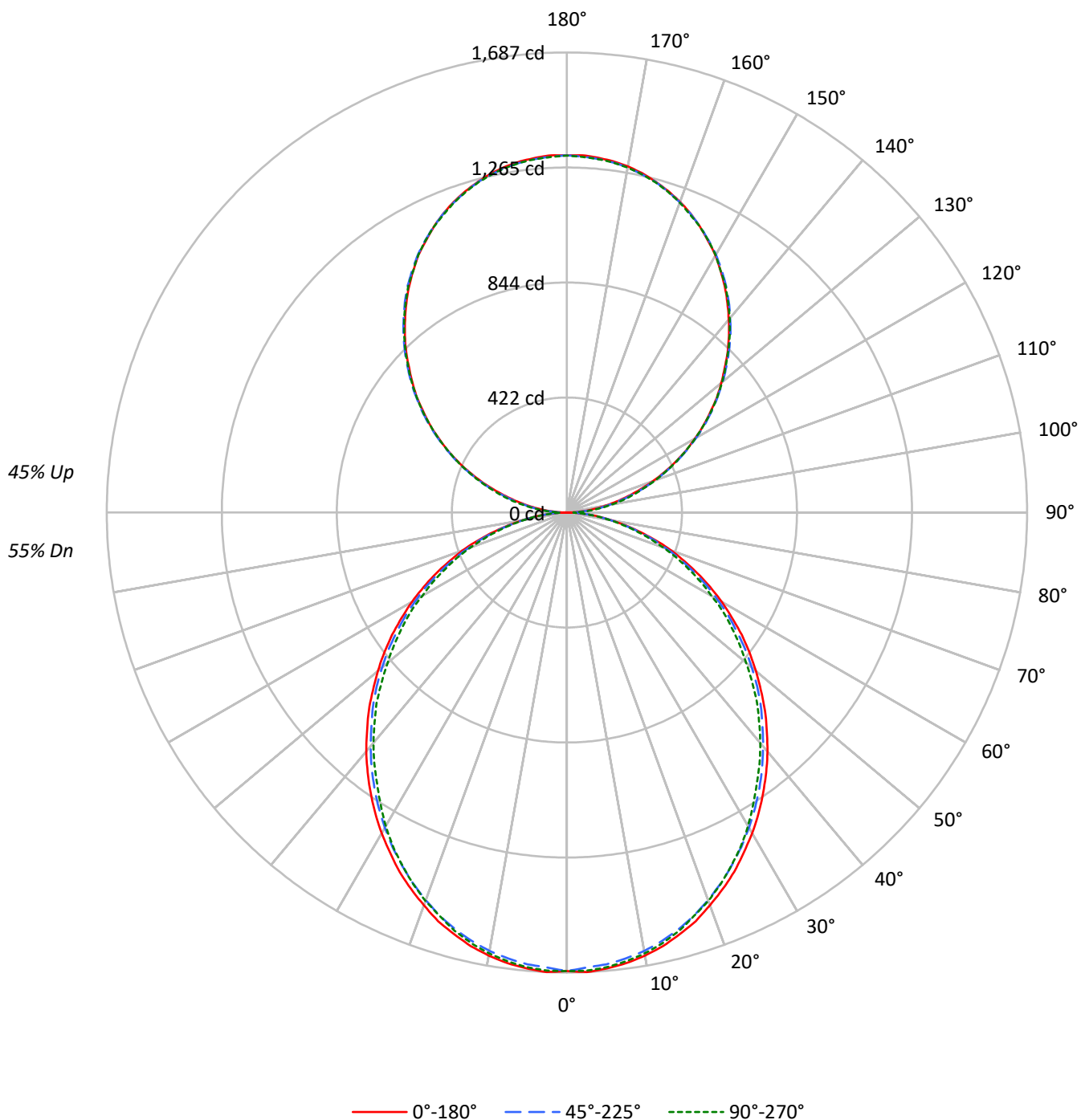
Lumens per Lamp: N/A
Luminaire Lumens: 8033.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	40	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°	10775	10775	10775
5°	10775	10525	10545
10°	10686	10284	10251
15°	10546	9995	9905
20°	10356	9660	9508
25°	10152	9295	9084
30°	9907	8915	8636
35°	9644	8517	8135
40°	9373	8095	7688
45°	9080	7684	7215
50°	8757	7218	6663
55°	8437	6705	6155
60°	8056	6164	5564
65°	7600	5537	4954
70°	7136	4816	4249
75°	6356	3965	3436
80°	5416	2962	2528
85°	4185	1752	1393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	2.0
10°-20°	448.2	5.6
20°-30°	661.7	8.2
30°-40°	772.1	9.6
40°-50°	775.4	9.7
50°-60°	680.7	8.5
60°-70°	507.0	6.3
70°-80°	289.6	3.6
80°-90°	85.6	1.1
90°-100°	87.1	1.1
100°-110°	258.6	3.2
110°-120°	438.6	5.5
120°-130°	577.5	7.2
130°-140°	647.1	8.1
140°-150°	634.3	7.9
150°-160°	532.8	6.6
160°-170°	354.1	4.4
170°-180°	123.9	1.5
0°-30°	1268.7	15.8
0°-40°	2040.7	25.4
0°-60°	3496.8	43.5
0°-90°	4379.0	54.5
90°-120°	784.3	9.8
90°-150°	2643.2	32.9
90°-180°	3654.0	45.5
0°-180°	8033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1679	1676	1663	1675	1674	159
15°	1600	1596	1582	1588	1588	451
25°	1453	1446	1429	1432	1428	668
35°	1255	1249	1231	1224	1213	785
45°	1027	1022	1006	990	986	791
55°	782	778	760	748	738	698
65°	528	526	511	499	494	524
75°	281	278	271	267	262	299
85°	73	74	74	73	70	80
90°	1	9	16	21	24	9
95°	66	68	78	86	88	69
105°	232	237	244	250	253	248
115°	439	443	445	444	443	434
125°	641	647	648	646	645	574
135°	833	840	841	841	836	642
145°	1010	1014	1017	1017	1014	631
155°	1155	1155	1156	1160	1155	532
165°	1256	1254	1255	1259	1253	354
175°	1306	1302	1302	1308	1301	124
180°	1309	1309	1309	1309	1309	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1687.0	1683.0	1669.7	1683.0	1681.7
5°	1679.0	1676.4	1663.1	1675.0	1673.7
7.5°	1667.0	1664.4	1649.7	1661.7	1660.4
10°	1649.7	1647.1	1632.5	1643.1	1641.8
12.5°	1628.5	1623.1	1609.8	1617.8	1617.8
15°	1600.5	1596.5	1581.9	1588.5	1588.5
17.5°	1571.3	1564.6	1550.0	1557.9	1551.3
20°	1532.7	1530.0	1512.7	1522.0	1515.4
22.5°	1494.1	1488.8	1472.8	1478.1	1474.1
25°	1452.8	1446.2	1428.9	1431.6	1427.6
27.5°	1404.9	1401.0	1383.7	1385.0	1381.0
30°	1358.4	1354.4	1334.4	1331.8	1327.8
32.5°	1307.8	1301.2	1283.9	1278.6	1270.6
35°	1254.6	1249.3	1230.7	1224.0	1213.4
37.5°	1200.1	1193.4	1176.1	1166.8	1160.1
40°	1144.2	1137.5	1118.9	1106.9	1102.9
42.5°	1084.3	1079.0	1060.4	1049.7	1043.1
45°	1027.1	1021.8	1005.8	989.8	985.9
47.5°	964.6	965.9	945.9	930.0	920.7
50°	904.7	900.7	884.7	867.4	858.1
52.5°	843.5	840.8	823.5	808.9	798.3
55°	782.3	778.3	759.7	747.7	738.4
57.5°	717.1	715.8	699.8	683.8	679.9
60°	655.9	650.6	636.0	622.6	613.3
62.5°	592.0	588.1	576.1	561.4	554.8
65°	528.2	525.5	510.9	498.9	493.6
67.5°	465.7	460.3	449.7	439.0	436.4
70°	407.1	400.5	388.5	380.5	375.2
72.5°	343.3	339.3	332.6	323.3	318.0
75°	280.7	278.1	271.4	267.4	262.1
77.5°	222.2	220.9	216.9	214.2	210.2
80°	167.6	167.6	165.0	163.6	161.0
82.5°	119.7	117.1	117.1	114.4	114.4
85°	73.2	74.5	74.5	73.2	70.5
87.5°	35.9	35.9	34.6	34.6	31.9
90°	1.0	9.2	16.3	21.4	24.5
92.5°	30.6	35.7	44.8	52.0	54.0
95°	66.2	68.3	78.5	85.6	87.6
97.5°	101.9	102.9	117.2	123.3	124.3
100°	142.6	142.6	155.9	165.1	167.1
102.5°	186.5	191.5	196.6	206.8	209.9
105°	232.3	237.4	243.5	249.6	252.7
107.5°	282.2	287.3	292.4	295.5	295.5
110°	334.2	339.3	342.3	345.4	344.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	387.2	389.2	393.3	394.3	392.3
115°	439.1	443.2	445.2	444.2	443.2
117.5°	492.1	493.1	495.2	496.2	492.1
120°	541.0	546.1	547.1	547.1	543.1
122.5°	594.0	595.0	598.1	597.1	594.0
125°	640.9	647.0	648.0	646.0	644.9
127.5°	692.8	695.9	696.9	695.9	693.8
130°	738.7	743.8	745.8	744.8	742.7
132.5°	784.5	793.7	792.7	791.7	788.6
135°	833.4	839.5	840.6	840.6	836.5
137.5°	879.3	885.4	887.4	888.4	883.3
140°	923.1	928.2	931.2	933.3	928.2
142.5°	966.9	971.0	975.0	976.1	971.0
145°	1009.7	1013.8	1016.8	1016.8	1013.8
147.5°	1049.4	1052.5	1054.5	1057.6	1049.4
150°	1089.2	1088.1	1092.2	1092.2	1090.2
152.5°	1121.8	1123.8	1124.8	1127.9	1123.8
155°	1155.4	1155.4	1156.4	1160.5	1155.4
157.5°	1186.0	1183.9	1184.9	1189.0	1181.9
160°	1212.4	1209.4	1210.4	1214.5	1209.4
162.5°	1235.9	1233.8	1233.8	1238.9	1232.8
165°	1256.3	1254.2	1255.2	1259.3	1253.2
167.5°	1274.6	1270.5	1270.5	1276.6	1270.5
170°	1288.9	1284.8	1284.8	1290.9	1283.8
172.5°	1299.0	1295.0	1295.0	1301.1	1295.0
175°	1306.2	1302.1	1302.1	1308.2	1301.1
177.5°	1311.3	1307.2	1306.2	1312.3	1305.2
180°	1309.2	1309.2	1309.2	1309.2	1309.2

(END OF REPORT)