

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: P1035089

Luminaire Tested: S125DIW-B1270D1050UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035089
REPORT IS A COMBINATION OF REPORTS P1003053 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-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

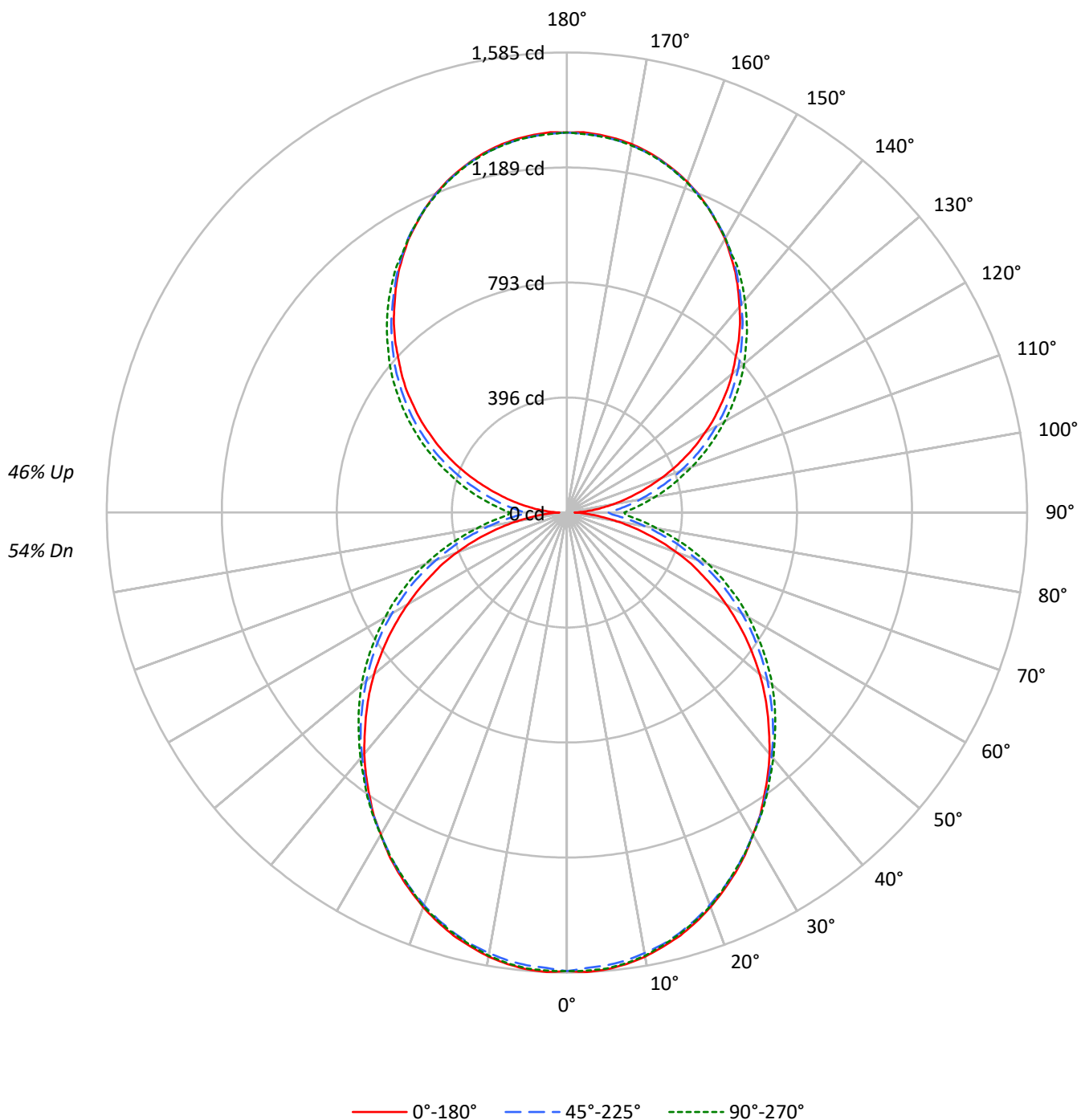
Lumens per Lamp: N/A
Luminaire Lumens: 8551.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

TEST NUMBER: P1035089

CATALOG NUMBER: S125DIW-B1270D1050UB27-4F0-XX-W2A-D1

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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		72	72	72		60
1	98	93	89	85	90	86	83	79	74	71	69		62	60	58		51
2	89	81	74	69	82	75	69	65	64	60	56		54	51	48		45
3	81	71	63	57	74	66	59	54	56	51	47		48	44	40		39
4	74	63	54	48	68	58	51	45	50	44	40		42	38	34		35
5	68	56	47	41	62	52	44	39	45	39	34		38	33	30		32
6	62	50	41	35	57	46	39	34	40	34	30		34	29	26		29
7	58	45	37	31	53	42	35	29	36	30	26		31	26	23		26
8	53	41	33	27	49	38	31	26	33	27	23		28	24	20		24
9	50	37	30	24	46	35	28	23	30	25	21		26	22	18		22
10	46	34	27	22	43	32	25	21	28	22	19		24	20	16		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8641 cd/sqm

TEST NUMBER: P1035089

CATALOG NUMBER: S125DIW-B1270D1050UB27-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.7
10°-20°	424.5	5.0
20°-30°	631.2	7.4
30°-40°	747.5	8.7
40°-50°	772.8	9.0
50°-60°	711.9	8.3
60°-70°	575.5	6.7
70°-80°	385.1	4.5
80°-90°	201.1	2.4
90°-100°	199.2	2.3
100°-110°	341.3	4.0
110°-120°	494.0	5.8
120°-130°	608.8	7.1
130°-140°	660.8	7.7
140°-150°	637.0	7.4
150°-160°	532.8	6.2
160°-170°	354.1	4.1
170°-180°	123.9	1.4
0°-30°	1205.2	14.1
0°-40°	1952.7	22.8
0°-60°	3437.5	40.2
0°-90°	4599.2	53.8
90°-120°	1034.4	12.1
90°-150°	2940.9	34.4
90°-180°	3952.0	46.2
0°-180°	8551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	26	84	143	184	198	22
95°	86	129	192	233	246	85
105°	246	276	329	366	380	262
115°	448	463	506	532	541	444
125°	647	652	684	706	713	579
135°	836	841	853	873	877	645
145°	1011	1014	1017	1024	1028	632
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	

TEST NUMBER: P1035089

CATALOG NUMBER: S125DIW-B1270D1050UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	25.8	83.6	143.3	184.1	198.0
92.5°	52.3	102.3	165.6	206.9	219.8
95°	86.3	128.7	191.6	232.8	245.6
97.5°	120.5	158.7	224.1	262.7	274.6
100°	159.6	192.2	255.0	296.8	308.1
102.5°	202.0	236.4	289.5	330.7	343.1
105°	246.2	276.1	328.7	365.8	379.7
107.5°	294.6	321.4	371.4	405.5	414.8
110°	345.0	368.7	415.1	447.6	457.5

TEST NUMBER: P1035089

CATALOG NUMBER: S125DIW-B1270D1050UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	398.0	414.0	459.9	488.8	497.6
115°	448.4	463.3	505.6	532.5	540.8
117.5°	499.8	508.6	549.4	576.8	583.5
120°	548.7	558.5	595.1	621.5	626.8
122.5°	600.2	602.7	639.9	663.7	669.9
125°	647.1	651.6	683.6	706.4	713.1
127.5°	697.4	699.0	726.3	748.6	755.8
130°	743.3	746.9	770.6	791.3	796.9
132.5°	787.6	796.8	811.3	832.0	835.1
135°	836.5	841.0	853.0	873.1	876.8
137.5°	882.4	886.9	895.1	914.7	915.8
140°	924.6	929.7	934.3	953.4	954.5
142.5°	968.4	971.0	975.0	990.0	991.1
145°	1011.2	1013.8	1016.8	1024.5	1027.7
147.5°	1049.4	1052.5	1054.5	1060.7	1055.6
150°	1089.2	1088.1	1092.2	1092.2	1091.7
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)