

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: P1035112

Luminaire Tested: S125DIW-B1270D1050UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035112
REPORT IS A COMBINATION OF REPORTS P1003109 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1050UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

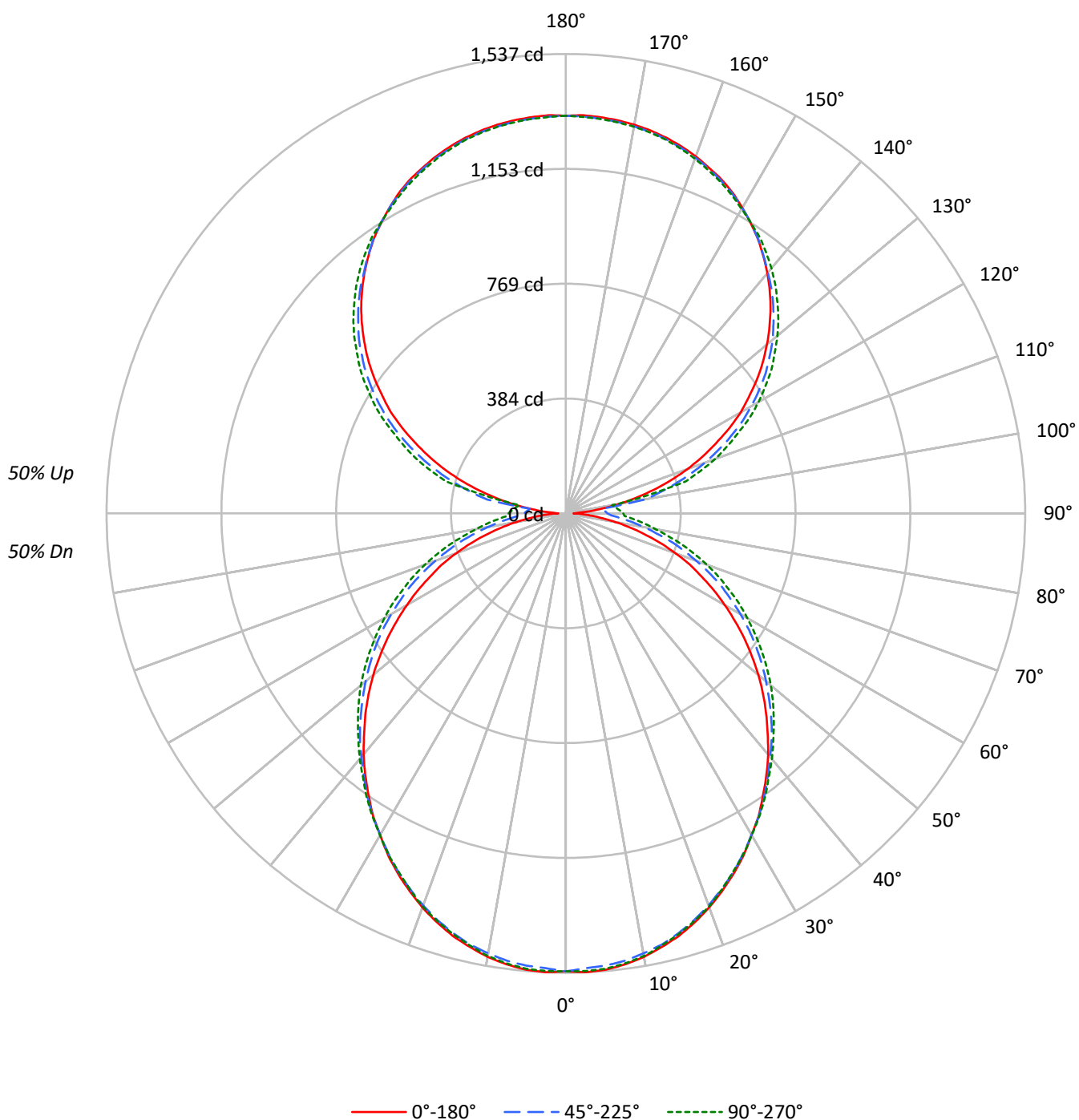
Lumens per Lamp: N/A
Luminaire Lumens: 8836.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1035112

CATALOG NUMBER: S125DIW-B1270D1050UB50-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1035112

CATALOG NUMBER: S125DIW-B1270D1050UB50-4F0-XX-W2A-D

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	97	92	88	85	89	85	82	79	72	70	67	60	58	56	49	47	46
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	43	40	38
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	33	30	28
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24
6	62	49	41	35	57	46	39	33	39	33	29	33	28	25	27	24	21
7	57	45	36	31	53	41	34	29	36	30	25	30	25	22	25	21	19
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	18	15
10	46	34	27	22	42	32	25	20	27	22	18	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9818	9818	9818
5°	9834	9612	9636
10°	9760	9416	9389
15°	9642	9188	9086
20°	9481	8913	8786
25°	9291	8619	8421
30°	9061	8300	8091
35°	8846	8005	7785
40°	8627	7695	7478
45°	8380	7426	7201
50°	8143	7133	6952
55°	7858	6855	6662
60°	7546	6537	6365
65°	7220	6203	6031
70°	6847	5755	5683
75°	6258	5313	5258
80°	5487	4774	4788
85°	4723	4345	4541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8380 cd/sqm

TEST NUMBER: P1035112

CATALOG NUMBER: S125DIW-B1270D1050UB50-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.6
10°-20°	411.6	4.7
20°-30°	612.1	6.9
30°-40°	724.9	8.2
40°-50°	749.5	8.5
50°-60°	690.4	7.8
60°-70°	558.1	6.3
70°-80°	373.4	4.2
80°-90°	195.0	2.2
90°-100°	153.9	1.7
100°-110°	380.4	4.3
110°-120°	594.4	6.7
120°-130°	724.4	8.2
130°-140°	759.8	8.6
140°-150°	703.3	8.0
150°-160°	566.7	6.4
160°-170°	366.5	4.1
170°-180°	126.4	1.4
0°-30°	1168.8	13.2
0°-40°	1893.7	21.4
0°-60°	3333.6	37.7
0°-90°	4460.1	50.5
90°-120°	1128.7	12.8
90°-150°	3316.2	37.5
90°-180°	4376.0	49.5
0°-180°	8836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1532	1529	1519	1531	1529	145
15°	1463	1465	1454	1463	1457	412
25°	1330	1334	1325	1331	1324	612
35°	1151	1161	1157	1161	1161	720
45°	948	964	972	982	984	731
55°	729	753	777	793	799	651
65°	502	536	572	595	601	498
75°	276	316	364	394	401	293
85°	83	132	185	218	230	86
90°	25	81	139	178	192	19
95°	76	112	126	163	174	84
105°	304	332	376	407	416	321
115°	553	569	609	632	635	549
125°	780	786	816	836	840	697
135°	969	973	982	999	1001	747
145°	1121	1121	1121	1130	1130	701
155°	1233	1227	1229	1232	1224	568
165°	1301	1295	1296	1302	1294	367
175°	1330	1325	1326	1334	1325	127
180°	1330	1330	1330	1330	1330	

TEST NUMBER: P1035112

CATALOG NUMBER: S125DIW-B1270D1050UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1536.9	1533.9	1523.4	1533.9	1532.4
5°	1532.4	1529.4	1518.8	1530.9	1529.4
7.5°	1521.8	1520.3	1509.8	1520.3	1518.8
10°	1506.8	1506.8	1494.8	1505.3	1503.8
12.5°	1485.8	1487.3	1478.3	1485.8	1481.3
15°	1463.3	1464.8	1454.2	1463.3	1457.2
17.5°	1434.7	1437.7	1427.2	1434.7	1430.2
20°	1403.2	1406.2	1395.7	1400.2	1400.2
22.5°	1367.1	1373.1	1361.1	1367.1	1362.6
25°	1329.6	1334.1	1325.0	1331.1	1323.5
27.5°	1289.0	1295.0	1284.5	1289.0	1286.0
30°	1242.4	1251.4	1242.4	1245.4	1243.9
32.5°	1200.4	1207.9	1201.9	1204.9	1203.4
35°	1150.8	1161.3	1156.8	1161.3	1161.3
37.5°	1102.7	1111.7	1110.2	1116.2	1114.7
40°	1053.1	1065.1	1063.6	1069.7	1072.7
42.5°	999.0	1015.6	1020.1	1027.6	1027.6
45°	948.0	964.5	972.0	982.5	984.0
47.5°	895.4	910.4	922.4	937.4	940.5
50°	841.3	857.8	874.3	890.9	895.4
52.5°	784.2	805.2	826.3	844.3	847.3
55°	728.6	752.7	776.7	793.2	799.2
57.5°	671.5	700.1	727.1	745.2	749.7
60°	614.4	644.5	674.5	697.1	701.6
62.5°	558.9	588.9	622.0	647.5	653.5
65°	501.8	536.3	572.4	594.9	600.9
67.5°	449.2	482.2	518.3	545.3	552.9
70°	390.6	425.2	464.2	492.8	501.8
72.5°	333.5	369.6	413.1	444.7	450.7
75°	276.4	315.5	363.6	393.6	401.1
77.5°	220.8	265.9	311.0	344.0	350.0
80°	169.8	214.8	265.9	299.0	305.0
82.5°	123.2	171.3	223.8	255.4	267.4
85°	82.6	132.2	184.8	217.8	229.9
87.5°	52.6	100.7	151.7	186.3	196.8
90°	25.0	81.0	139.0	178.4	192.0
92.5°	39.7	74.5	133.0	170.9	182.4
95°	75.7	111.9	125.5	163.4	173.9
97.5°	123.5	165.6	121.5	154.9	166.4
100°	181.2	215.8	267.7	152.4	157.4
102.5°	239.9	272.4	320.9	353.0	279.1
105°	303.5	331.5	376.5	406.6	416.1
107.5°	369.0	390.1	435.6	466.7	471.8
110°	432.6	450.6	494.7	520.3	531.8

TEST NUMBER: P1035112

CATALOG NUMBER: S125DIW-B1270D1050UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	493.8	510.2	551.8	574.9	583.5
115°	553.4	568.9	608.9	632.0	635.1
117.5°	616.0	623.5	665.1	684.7	693.2
120°	675.2	678.7	716.3	739.8	743.9
122.5°	726.0	732.4	766.5	788.5	791.6
125°	780.2	785.6	815.7	835.8	840.3
127.5°	831.0	834.4	859.0	879.6	880.7
130°	878.4	881.8	903.8	921.9	924.5
132.5°	924.2	930.1	942.2	963.3	964.3
135°	968.6	973.0	981.5	999.0	1000.7
137.5°	1010.0	1014.4	1018.4	1036.4	1037.5
140°	1048.9	1050.9	1051.4	1069.9	1070.0
142.5°	1085.4	1084.9	1086.9	1100.4	1100.5
145°	1120.9	1121.4	1121.4	1129.9	1130.0
147.5°	1151.0	1151.0	1152.0	1156.0	1152.1
150°	1180.6	1178.6	1180.6	1182.6	1176.2
152.5°	1209.2	1204.3	1206.2	1208.2	1201.3
155°	1232.9	1226.9	1228.9	1231.9	1224.0
157.5°	1251.6	1248.6	1248.6	1251.6	1243.7
160°	1271.3	1265.4	1266.4	1270.3	1262.4
162.5°	1287.1	1281.2	1282.2	1288.1	1279.2
165°	1300.9	1295.0	1296.0	1301.9	1294.0
167.5°	1311.8	1305.8	1306.8	1313.7	1304.9
170°	1320.6	1313.7	1314.7	1322.6	1313.7
172.5°	1326.6	1319.7	1321.6	1328.5	1319.7
175°	1330.5	1324.6	1325.6	1333.5	1324.6
177.5°	1333.5	1327.5	1328.5	1335.4	1327.5
180°	1330.5	1330.5	1330.5	1330.5	1330.5

(END OF REPORT)