

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: P1034394

Luminaire Tested: S125DIW-B1270D1050UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034394
REPORT IS A COMBINATION OF REPORTS P1003065 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1050UB2750-4F0-XX-W2A-D1_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

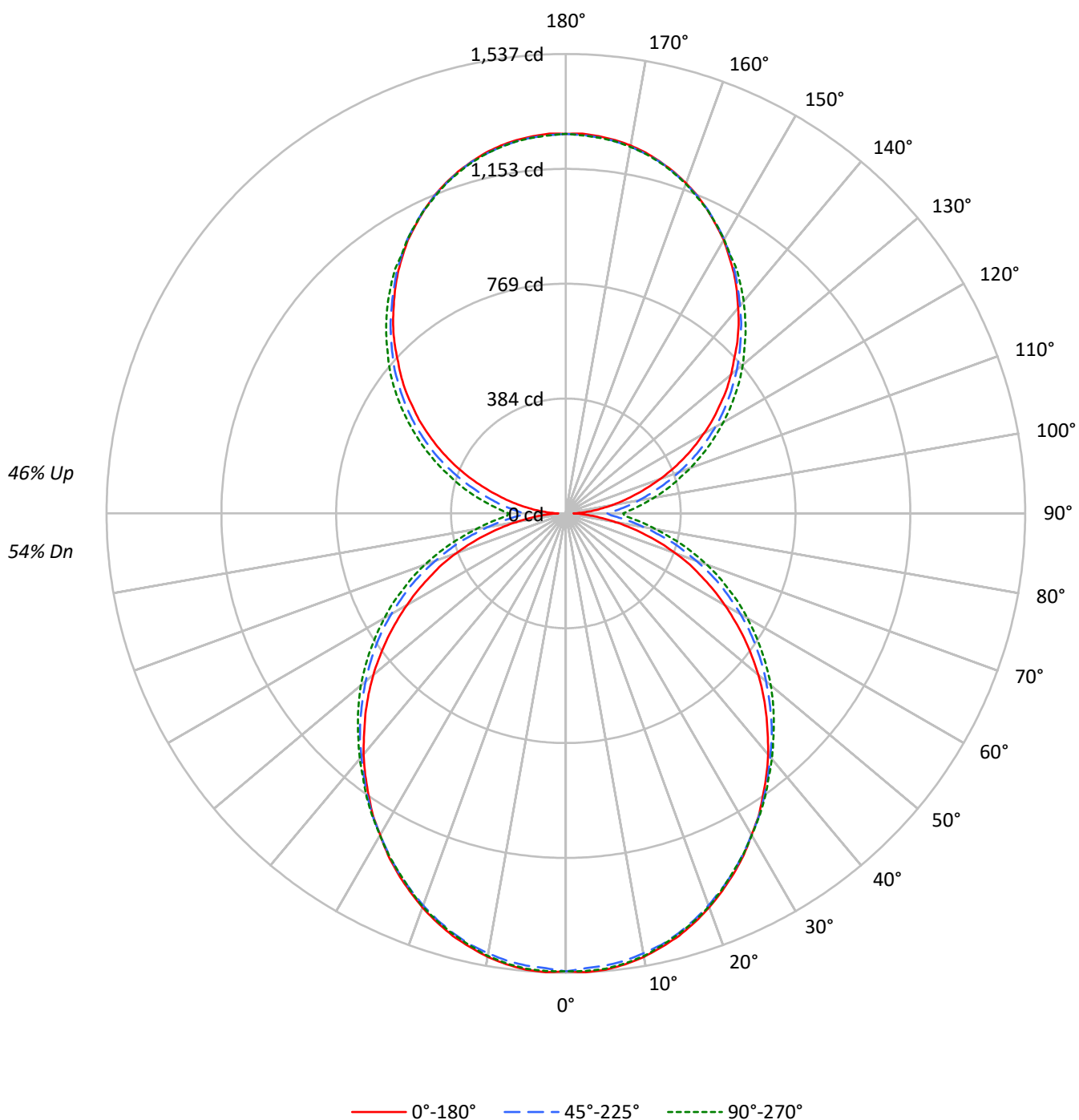
Lumens per Lamp: N/A
Luminaire Lumens: 8293.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1034394

CATALOG NUMBER: S125DIW-B1270D1050UB2750-4F0-XX-W2A-D1_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1034394

CATALOG NUMBER: S125DIW-B1270D1050UB2750-4F0-XX-W2A-D1_5000K

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°	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: P1034394

CATALOG NUMBER: S125DIW-B1270D1050UB2750-4F0-XX-W2A-D1_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.7
10°-20°	411.6	5.0
20°-30°	612.1	7.4
30°-40°	724.9	8.7
40°-50°	749.5	9.0
50°-60°	690.4	8.3
60°-70°	558.1	6.7
70°-80°	373.4	4.5
80°-90°	195.0	2.4
90°-100°	193.2	2.3
100°-110°	331.0	4.0
110°-120°	479.1	5.8
120°-130°	590.5	7.1
130°-140°	640.9	7.7
140°-150°	617.8	7.4
150°-160°	516.7	6.2
160°-170°	343.5	4.1
170°-180°	120.2	1.4
0°-30°	1168.8	14.1
0°-40°	1893.7	22.8
0°-60°	3333.6	40.2
0°-90°	4460.1	53.8
90°-120°	1003.3	12.1
90°-150°	2852.4	34.4
90°-180°	3833.0	46.2
0°-180°	8293.0	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	21
95°	84	125	186	226	238	82
105°	239	268	319	355	368	255
115°	435	449	490	516	524	430
125°	628	632	663	685	692	562
135°	811	816	827	847	850	625
145°	981	983	986	994	997	613
155°	1121	1121	1122	1126	1121	516
165°	1218	1216	1218	1221	1216	344
175°	1267	1263	1263	1269	1262	120
180°	1270	1270	1270	1270	1270	

TEST NUMBER: P1034394

CATALOG NUMBER: S125DIW-B1270D1050UB2750-4F0-XX-W2A-D1_5000K

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	178.5	192.0
92.5°	50.6	99.2	160.7	200.6	213.1
95°	83.7	124.8	185.8	225.7	238.2
97.5°	116.8	153.9	217.3	254.8	266.3
100°	154.8	186.4	247.3	287.8	298.8
102.5°	195.8	229.4	280.8	320.8	332.8
105°	238.8	267.9	318.8	354.8	368.3
107.5°	285.7	311.8	360.2	393.3	402.3
110°	334.6	357.6	402.6	434.2	443.7

TEST NUMBER: P1034394

CATALOG NUMBER: S125DIW-B1270D1050UB2750-4F0-XX-W2A-D1_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	386.0	401.5	446.0	474.0	482.7
115°	434.9	449.4	490.4	516.5	524.5
117.5°	484.8	493.3	532.9	559.4	565.9
120°	532.2	541.7	577.3	602.8	607.8
122.5°	582.1	584.6	620.7	643.7	649.7
125°	627.6	632.0	663.1	685.1	691.6
127.5°	676.5	677.9	704.4	726.0	733.1
130°	720.9	724.4	747.4	767.5	773.0
132.5°	763.9	772.8	786.8	806.9	810.0
135°	811.4	815.8	827.3	846.8	850.4
137.5°	855.8	860.2	868.2	887.2	888.3
140°	896.8	901.8	906.2	924.7	925.8
142.5°	939.3	941.8	945.7	960.2	961.3
145°	980.8	983.3	986.2	993.7	996.8
147.5°	1017.8	1020.8	1022.8	1028.8	1023.8
150°	1056.4	1055.4	1059.4	1059.4	1058.9
152.5°	1088.0	1090.0	1091.0	1093.9	1090.0
155°	1120.6	1120.6	1121.6	1125.6	1120.6
157.5°	1150.3	1148.3	1149.3	1153.2	1146.3
160°	1176.0	1173.0	1174.0	1177.9	1173.0
162.5°	1198.7	1196.7	1196.7	1201.7	1195.7
165°	1218.5	1216.5	1217.5	1221.4	1215.5
167.5°	1236.2	1232.3	1232.3	1238.2	1232.3
170°	1250.1	1246.1	1246.1	1252.1	1245.1
172.5°	1260.0	1256.0	1256.0	1261.9	1256.0
175°	1266.9	1262.9	1262.9	1268.9	1261.9
177.5°	1271.8	1267.9	1266.9	1272.8	1265.9
180°	1269.8	1269.8	1269.8	1269.8	1269.8

(END OF REPORT)