

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: P1035787

Luminaire Tested: S125RDIW-B1270D1050UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035787
REPORT IS A COMBINATION OF REPORTS P1006175 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D1050UB40-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

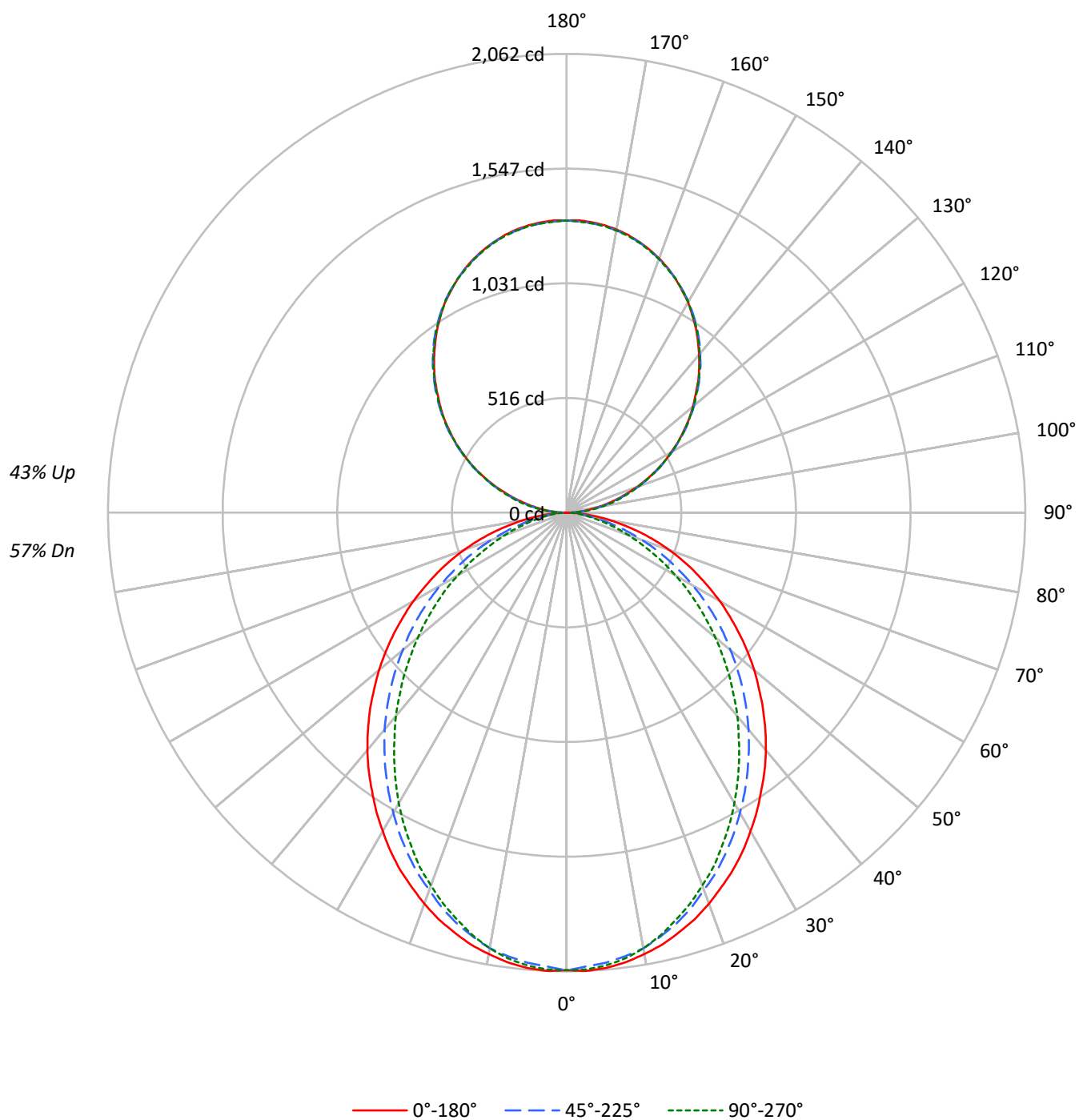
Lumens per Lamp: N/A
Luminaire Lumens: 8527.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1035787

CATALOG NUMBER: S125RDIW-B1270D1050UB40-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1035787

CATALOG NUMBER: S125RDIW-B1270D1050UB40-4F0-XX-W2A-F1

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	101	101	101	101	87	87	87	74	74	74	63	63	63
1	100	95	92	88	93	89	86	83	77	74	72	66	64	63	56	55	53
2	91	84	77	72	84	78	73	68	68	64	60	58	55	53	49	47	45
3	83	74	66	61	77	69	62	57	60	55	51	52	48	45	44	41	39
4	76	65	57	51	71	61	54	49	53	48	44	46	42	39	39	36	34
5	70	58	50	44	65	55	48	42	48	42	38	42	37	34	36	32	29
6	65	52	44	39	60	49	42	37	43	37	33	38	33	30	32	29	26
7	60	47	40	34	56	45	37	32	39	34	29	34	30	26	30	26	23
8	56	43	35	30	52	41	34	29	36	30	26	31	27	23	27	24	21
9	52	40	32	27	48	37	30	26	33	27	23	29	24	21	25	22	19
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13179	13179	13179
5°	13181	12851	12872
10°	13053	12527	12417
15°	12868	12074	11818
20°	12639	11528	11191
25°	12376	10996	10519
30°	12056	10411	9812
35°	11728	9816	9062
40°	11416	9205	8328
45°	11042	8546	7561
50°	10662	7846	6779
55°	10221	7158	5970
60°	9771	6369	5131
65°	9233	5489	4225
70°	8605	4468	3325
75°	7739	3359	2424
80°	6528	2176	1634
85°	4888	1169	921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11042 cd/sqm

TEST NUMBER: P1035787

CATALOG NUMBER: S125RDIW-B1270D1050UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	2.3
10°-20°	541.0	6.3
20°-30°	784.5	9.2
30°-40°	893.8	10.5
40°-50°	871.1	10.2
50°-60°	733.1	8.6
60°-70°	513.8	6.0
70°-80°	263.4	3.1
80°-90°	67.7	0.8
90°-100°	87.3	1.0
100°-110°	259.4	3.0
110°-120°	440.0	5.2
120°-130°	579.2	6.8
130°-140°	649.0	7.6
140°-150°	636.2	7.5
150°-160°	534.4	6.3
160°-170°	355.2	4.2
170°-180°	124.3	1.5
0°-30°	1519.1	17.8
0°-40°	2412.9	28.3
0°-60°	4017.2	47.1
0°-90°	4862.1	57.0
90°-120°	786.7	9.2
90°-150°	2651.1	31.1
90°-180°	3665.0	43.0
0°-180°	8527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2057	2057	2057	2057	2057	
5°	2054	2048	2031	2046	2043	195
15°	1953	1944	1911	1909	1895	551
25°	1771	1748	1690	1670	1653	815
35°	1526	1488	1418	1373	1352	955
45°	1249	1204	1119	1056	1033	963
55°	948	898	811	741	716	847
65°	642	589	506	444	421	635
75°	342	295	230	196	185	361
85°	86	58	50	48	47	94
90°	1	9	16	22	24	9
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	

TEST NUMBER: P1035787

CATALOG NUMBER: S125RDIW-B1270D1050UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2057.0	2057.0	2057.0	2057.0	2057.0
2.5°	2061.7	2057.0	2041.5	2057.0	2055.5
5°	2053.9	2047.7	2030.6	2046.1	2043.0
7.5°	2038.4	2032.2	2012.0	2024.4	2021.3
10°	2015.1	2010.4	1988.7	1993.3	1988.7
12.5°	1988.7	1982.4	1951.4	1954.5	1946.7
15°	1952.9	1943.6	1911.0	1909.4	1895.4
17.5°	1915.6	1901.7	1862.8	1855.0	1844.2
20°	1870.6	1855.0	1805.3	1797.6	1783.6
22.5°	1820.9	1805.3	1752.5	1735.4	1724.5
25°	1771.1	1747.8	1690.4	1670.2	1653.1
27.5°	1715.2	1687.3	1626.7	1600.2	1583.2
30°	1653.1	1623.6	1558.3	1522.6	1508.6
32.5°	1592.5	1556.7	1489.9	1449.5	1430.9
35°	1525.7	1488.4	1418.5	1373.4	1351.7
37.5°	1462.0	1416.9	1345.5	1292.6	1270.9
40°	1393.6	1347.0	1272.4	1213.4	1194.7
42.5°	1322.1	1274.0	1196.3	1140.4	1110.9
45°	1249.1	1204.1	1118.6	1056.5	1033.2
47.5°	1173.0	1126.4	1040.9	977.2	950.8
50°	1101.5	1050.3	961.7	896.4	873.1
52.5°	1023.8	971.0	888.7	817.2	793.9
55°	947.7	898.0	811.0	741.1	716.2
57.5°	870.0	817.2	733.3	665.0	643.2
60°	795.5	741.1	657.2	588.8	565.5
62.5°	716.2	665.0	579.5	517.4	494.1
65°	641.7	588.8	506.5	444.3	421.0
67.5°	567.1	514.3	435.0	376.0	357.3
70°	490.9	438.1	360.4	312.3	293.6
72.5°	416.4	365.1	293.6	250.1	239.3
75°	341.8	295.2	229.9	195.8	184.9
77.5°	265.7	228.4	174.0	147.6	138.3
80°	202.0	164.7	121.2	107.2	104.1
82.5°	139.8	107.2	80.8	76.1	74.6
85°	85.5	57.5	49.7	48.2	46.6
87.5°	35.7	24.9	23.3	23.3	21.8
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

TEST NUMBER: P1035787

CATALOG NUMBER: S125RDIW-B1270D1050UB40-4F0-XX-W2A-F1

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)