

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: P1034896

Luminaire Tested: S125RDIW-B850D1050UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034896
REPORT IS A COMBINATION OF REPORTS P1006815 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D1050UB2750-4F0-XX-W2A-F_3000K
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

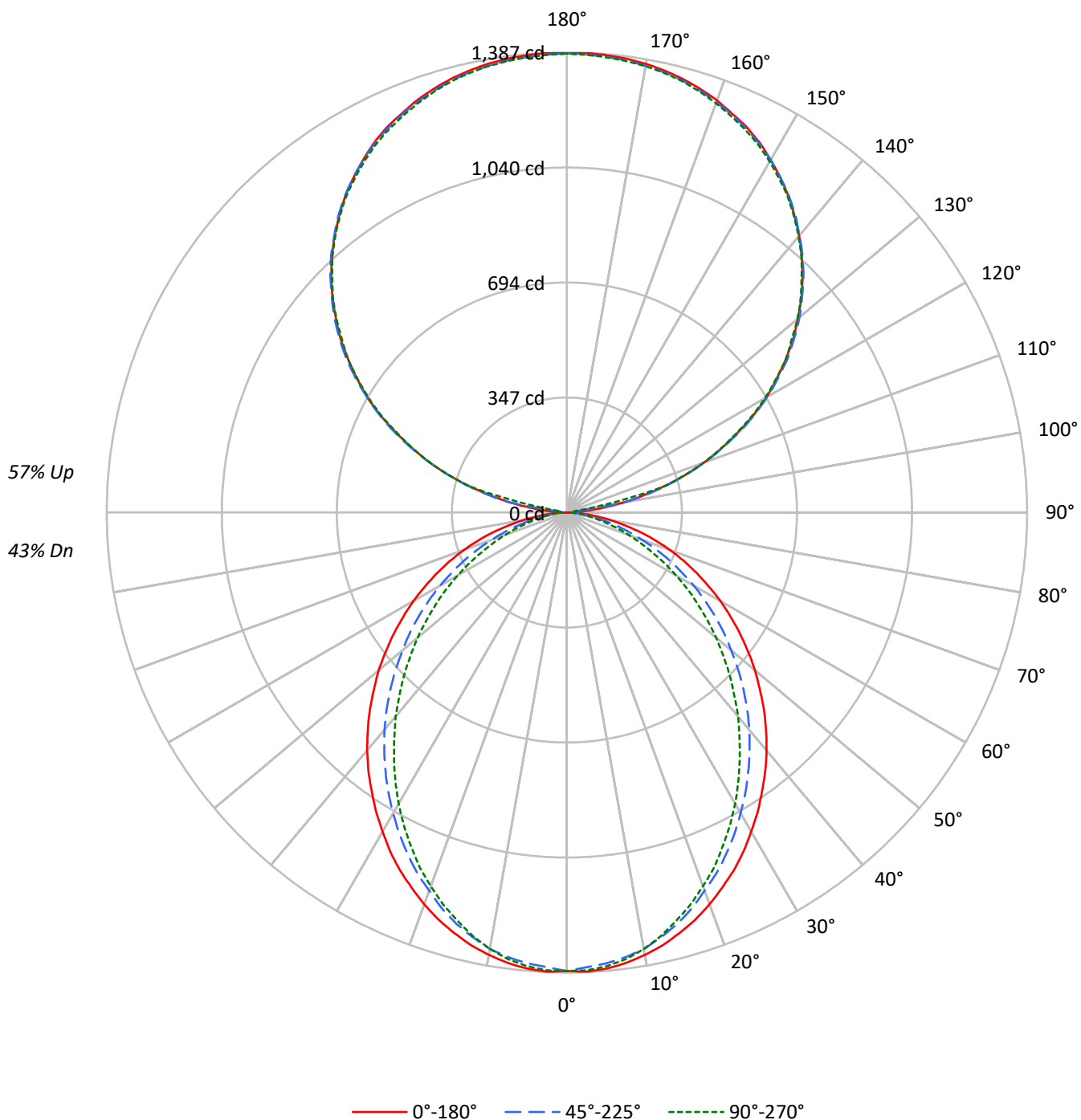
Lumens per Lamp: N/A
Luminaire Lumens: 7519.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.4
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	97	92	89	85	88	85	81	78	70	68	66	57	55	54	45	44	43
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36
3	80	71	64	58	73	65	59	54	55	50	46	44	41	38	35	33	31
4	74	63	55	49	67	58	51	46	49	43	39	40	36	33	31	29	27
5	68	56	48	42	62	52	45	40	43	38	34	36	32	29	28	26	23
6	62	50	42	37	57	47	40	34	39	34	30	32	28	25	26	23	21
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	18
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15
10	46	35	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8857	8857	8857
5°	8858	8636	8650
10°	8772	8418	8344
15°	8647	8114	7943
20°	8494	7747	7521
25°	8317	7389	7069
30°	8102	6996	6594
35°	7882	6596	6089
40°	7672	6186	5597
45°	7420	5743	5081
50°	7165	5273	4556
55°	6869	4810	4012
60°	6566	4280	3448
65°	6205	3689	2839
70°	5783	3002	2234
75°	5201	2257	1628
80°	4385	1461	1099
85°	3282	785	618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.7
10°-20°	363.6	4.8
20°-30°	527.2	7.0
30°-40°	600.6	8.0
40°-50°	585.4	7.8
50°-60°	492.7	6.6
60°-70°	345.2	4.6
70°-80°	177.0	2.4
80°-90°	46.2	0.6
90°-100°	47.0	0.6
100°-110°	312.3	4.2
110°-120°	562.4	7.5
120°-130°	721.9	9.6
130°-140°	776.4	10.3
140°-150°	728.7	9.7
150°-160°	589.5	7.8
160°-170°	381.2	5.1
170°-180°	131.5	1.7
0°-30°	1020.9	13.6
0°-40°	1621.5	21.6
0°-60°	2699.6	35.9
0°-90°	3268.0	43.5
90°-120°	921.7	12.3
90°-150°	3148.8	41.9
90°-180°	4251.0	56.5
0°-180°	7519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1380	1376	1365	1375	1373	131
15°	1312	1306	1284	1283	1274	370
25°	1190	1175	1136	1122	1111	548
35°	1025	1000	953	923	908	642
45°	839	809	752	710	694	647
55°	637	604	545	498	481	570
65°	431	396	340	299	283	427
75°	230	198	154	132	124	243
85°	57	39	33	32	31	63
90°	1	9	16	22	25	6
95°	58	55	16	22	22	72
105°	302	306	306	306	305	320
115°	566	571	572	568	562	561
125°	805	812	812	808	805	719
135°	1004	1010	1008	1006	1000	774
145°	1164	1166	1166	1167	1161	728
155°	1282	1276	1278	1281	1273	591
165°	1353	1347	1348	1354	1346	382
175°	1384	1378	1379	1387	1378	132
180°	1384	1384	1384	1384	1384	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1385.5	1382.3	1371.9	1382.3	1381.3
5°	1380.3	1376.1	1364.6	1375.0	1373.0
7.5°	1369.8	1365.6	1352.1	1360.4	1358.3
10°	1354.2	1351.0	1336.4	1339.5	1336.4
12.5°	1336.4	1332.2	1311.4	1313.4	1308.2
15°	1312.4	1306.1	1284.2	1283.2	1273.8
17.5°	1287.3	1277.9	1251.8	1246.6	1239.3
20°	1257.1	1246.6	1213.2	1208.0	1198.6
22.5°	1223.7	1213.2	1177.7	1166.2	1158.9
25°	1190.2	1174.6	1135.9	1122.4	1110.9
27.5°	1152.7	1133.9	1093.1	1075.4	1063.9
30°	1110.9	1091.1	1047.2	1023.2	1013.8
32.5°	1070.2	1046.2	1001.3	974.1	961.6
35°	1025.3	1000.2	953.2	923.0	908.3
37.5°	982.5	952.2	904.2	868.7	854.0
40°	936.5	905.2	855.1	815.4	802.9
42.5°	888.5	856.1	803.9	766.3	746.5
45°	839.4	809.2	751.7	710.0	694.3
47.5°	788.3	757.0	699.5	656.7	639.0
50°	740.2	705.8	646.3	602.4	586.8
52.5°	688.0	652.5	597.2	549.2	533.5
55°	636.9	603.5	545.0	498.0	481.3
57.5°	584.7	549.2	492.8	446.9	432.2
60°	534.6	498.0	441.6	395.7	380.0
62.5°	481.3	446.9	389.4	347.7	332.0
65°	431.2	395.7	340.4	298.6	282.9
67.5°	381.1	345.6	292.3	252.7	240.1
70°	329.9	294.4	242.2	209.9	197.3
72.5°	279.8	245.4	197.3	168.1	160.8
75°	229.7	198.4	154.5	131.6	124.2
77.5°	178.5	153.5	116.9	99.2	92.9
80°	135.7	110.7	81.4	72.0	70.0
82.5°	94.0	72.0	54.3	51.2	50.1
85°	57.4	38.6	33.4	32.4	31.3
87.5°	24.0	16.7	15.7	15.7	14.6
90°	1.0	9.2	16.4	21.5	24.6
92.5°	19.5	10.3	16.4	21.5	22.6
95°	58.5	55.4	16.4	21.5	21.5
97.5°	109.8	115.9	18.5	20.5	21.5
100°	171.3	174.4	178.5	25.6	21.5
102.5°	233.9	238.0	240.0	242.1	155.9
105°	301.6	305.7	305.7	305.7	304.7
107.5°	371.4	371.4	373.4	374.4	370.3
110°	439.1	439.1	441.1	438.0	439.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	502.7	505.7	506.8	502.7	500.6
115°	566.3	571.4	572.4	568.3	562.2
117.5°	632.9	632.9	637.1	630.9	628.8
120°	694.5	693.5	696.5	694.5	689.4
122.5°	748.9	754.0	755.0	753.0	746.8
125°	805.3	812.5	812.5	808.4	805.3
127.5°	859.7	864.8	863.8	861.7	853.5
130°	908.9	914.0	915.1	912.0	906.8
132.5°	958.1	964.3	961.2	961.2	956.1
135°	1004.3	1010.5	1008.4	1006.4	1000.2
137.5°	1047.4	1053.5	1051.5	1051.5	1046.4
140°	1089.4	1091.5	1090.5	1092.5	1086.4
142.5°	1127.4	1128.4	1130.5	1130.5	1124.3
145°	1164.3	1166.4	1166.4	1167.4	1161.3
147.5°	1197.2	1197.2	1198.2	1199.2	1192.0
150°	1227.9	1225.9	1227.9	1230.0	1221.8
152.5°	1257.7	1252.6	1254.6	1256.7	1249.5
155°	1282.3	1276.2	1278.2	1281.3	1273.1
157.5°	1301.8	1298.7	1298.7	1301.8	1293.6
160°	1322.3	1316.2	1317.2	1321.3	1313.1
162.5°	1338.7	1332.6	1333.6	1339.8	1330.5
165°	1353.1	1346.9	1348.0	1354.1	1345.9
167.5°	1364.4	1358.2	1359.2	1366.4	1357.2
170°	1373.6	1366.4	1367.5	1375.7	1366.4
172.5°	1379.8	1372.6	1374.6	1381.8	1372.6
175°	1383.9	1377.7	1378.7	1386.9	1377.7
177.5°	1386.9	1380.8	1381.8	1389.0	1380.8
180°	1383.9	1383.9	1383.9	1383.9	1383.9

(END OF REPORT)