

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: P1035974

Luminaire Tested: S125RDIW-B610D1050UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035974
REPORT IS A COMBINATION OF REPORTS P1006602 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D1050UB30-4F0-XX-W2A-F
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

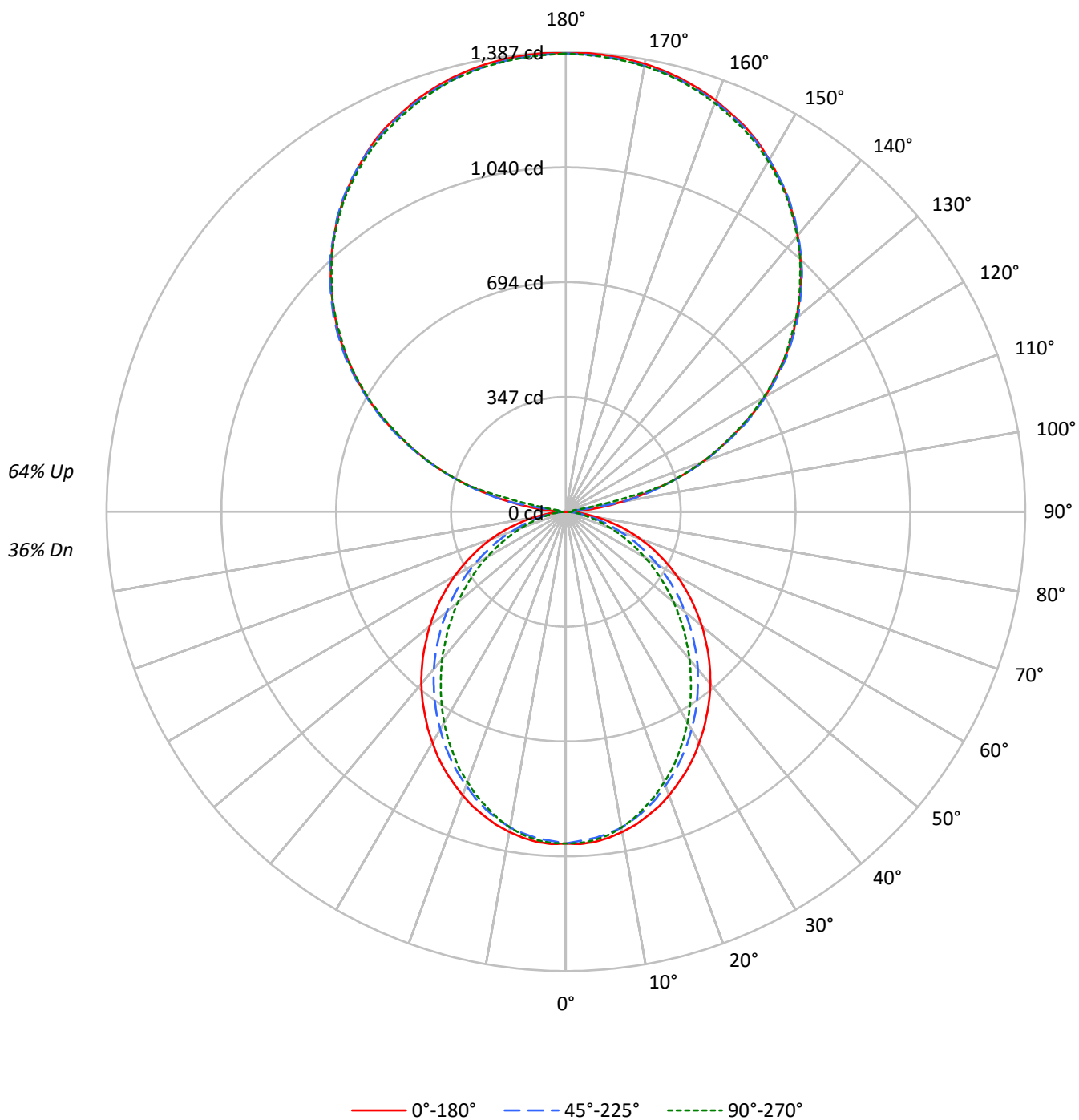
Lumens per Lamp: N/A
Luminaire Lumens: 6620.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.5
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	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	37	37
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	32	31
3	79	70	63	57	71	63	57	52	51	47	44	40	37	35	30	28	27
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6419	6419	6419
5°	6419	6259	6269
10°	6357	6101	6047
15°	6267	5880	5756
20°	6155	5615	5451
25°	6028	5356	5123
30°	5872	5070	4779
35°	5712	4780	4413
40°	5560	4483	4057
45°	5378	4162	3683
50°	5193	3822	3302
55°	4979	3486	2908
60°	4758	3102	2499
65°	4497	2673	2058
70°	4191	2176	1619
75°	3770	1636	1180
80°	3180	1059	796
85°	2378	569	448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.4
10°-20°	263.5	4.0
20°-30°	382.1	5.8
30°-40°	435.3	6.6
40°-50°	424.3	6.4
50°-60°	357.1	5.4
60°-70°	250.2	3.8
70°-80°	128.3	1.9
80°-90°	34.0	0.5
90°-100°	47.0	0.7
100°-110°	312.3	4.7
110°-120°	562.4	8.5
120°-130°	721.9	10.9
130°-140°	776.4	11.7
140°-150°	728.7	11.0
150°-160°	589.5	8.9
160°-170°	381.2	5.8
170°-180°	131.5	2.0
0°-30°	739.9	11.2
0°-40°	1175.2	17.8
0°-60°	1956.5	29.6
0°-90°	2369.1	35.8
90°-120°	921.7	13.9
90°-150°	3148.8	47.6
90°-180°	4251.0	64.2
0°-180°	6620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1000	997	989	996	995	95
15°	951	947	931	930	923	268
25°	863	851	823	813	805	397
35°	743	725	691	669	658	465
45°	608	586	545	514	503	469
55°	462	437	395	361	349	413
65°	312	287	247	216	205	309
75°	166	144	112	95	90	176
85°	42	28	24	24	23	46
90°	1	9	16	22	25	5
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°	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1004.1	1001.8	994.3	1001.8	1001.1
5°	1000.3	997.3	989.0	996.5	995.0
7.5°	992.8	989.7	979.9	986.0	984.4
10°	981.4	979.1	968.5	970.8	968.5
12.5°	968.5	965.5	950.4	951.9	948.1
15°	951.1	946.6	930.7	930.0	923.1
17.5°	933.0	926.2	907.3	903.5	898.2
20°	911.0	903.5	879.3	875.5	868.7
22.5°	886.8	879.3	853.5	845.2	839.9
25°	862.6	851.3	823.3	813.4	805.1
27.5°	835.4	821.8	792.2	779.4	771.1
30°	805.1	790.7	758.9	741.5	734.7
32.5°	775.6	758.2	725.7	706.0	696.9
35°	743.1	724.9	690.8	668.9	658.3
37.5°	712.0	690.1	655.3	629.6	619.0
40°	678.7	656.0	619.7	591.0	581.9
42.5°	643.9	620.5	582.6	555.4	541.0
45°	608.4	586.4	544.8	514.5	503.2
47.5°	571.3	548.6	507.0	476.0	463.1
50°	536.5	511.5	468.4	436.6	425.3
52.5°	498.7	472.9	432.8	398.0	386.7
55°	461.6	437.4	395.0	360.9	348.8
57.5°	423.7	398.0	357.2	323.9	313.3
60°	387.4	360.9	320.1	286.8	275.4
62.5°	348.8	323.9	282.2	252.0	240.6
65°	312.5	286.8	246.7	216.4	205.1
67.5°	276.2	250.5	211.9	183.1	174.0
70°	239.1	213.4	175.5	152.1	143.0
72.5°	202.8	177.8	143.0	121.8	116.5
75°	166.5	143.8	112.0	95.3	90.0
77.5°	129.4	111.2	84.7	71.9	67.3
80°	98.4	80.2	59.0	52.2	50.7
82.5°	68.1	52.2	39.3	37.1	36.3
85°	41.6	28.0	24.2	23.5	22.7
87.5°	17.4	12.1	11.4	11.4	10.6
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)