

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: P1035970

Luminaire Tested: S125RDIW-B610D1050UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035970
REPORT IS A COMBINATION OF REPORTS P1006582 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D1050UB27-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

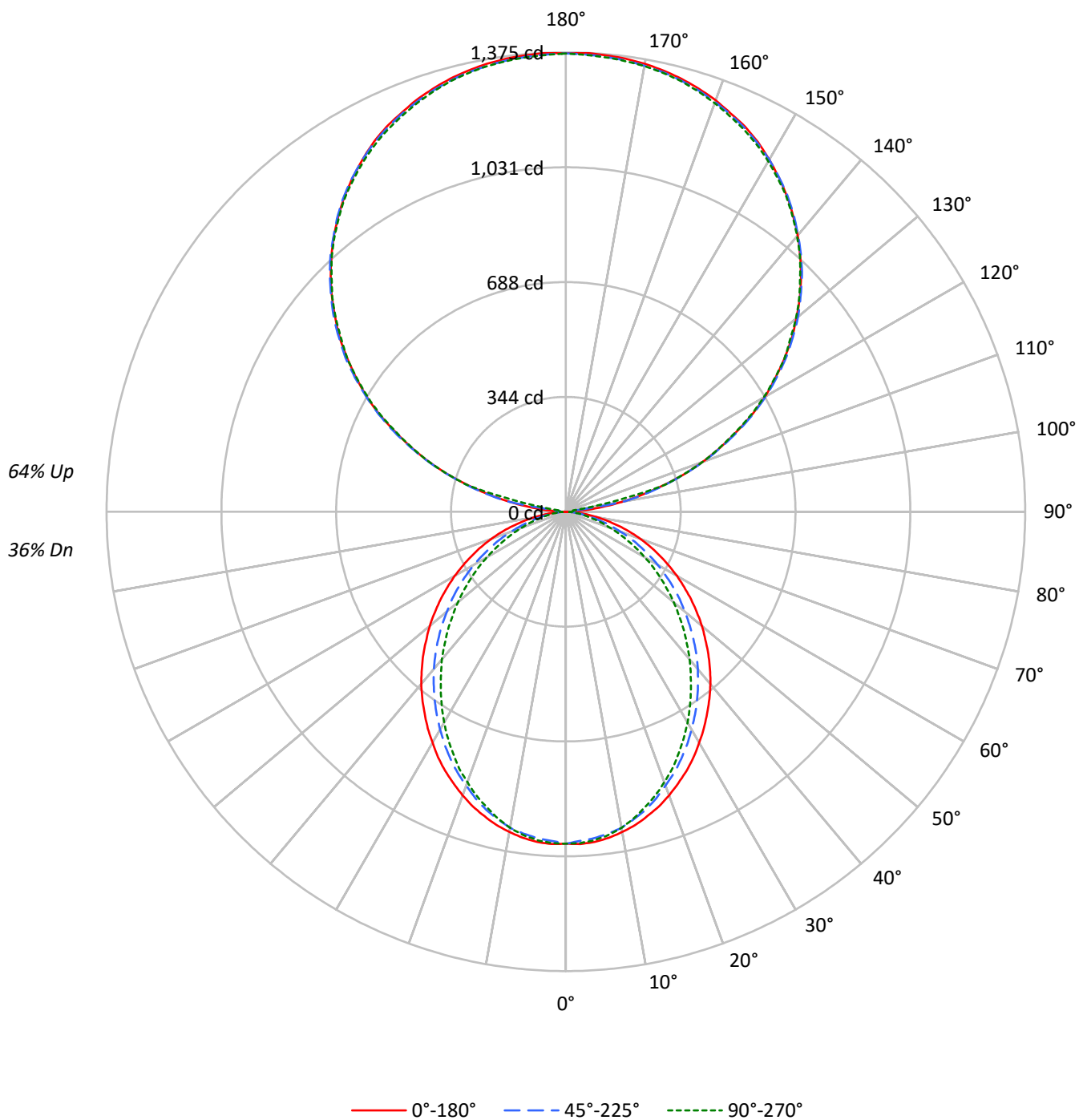
Lumens per Lamp: N/A
Luminaire Lumens: 6563.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	6365	6365	6365
5°	6366	6206	6216
10°	6303	6050	5997
15°	6214	5831	5707
20°	6103	5567	5404
25°	5977	5310	5080
30°	5822	5027	4738
35°	5664	4740	4376
40°	5513	4446	4022
45°	5332	4127	3651
50°	5149	3789	3274
55°	4936	3456	2883
60°	4718	3076	2478
65°	4459	2651	2040
70°	4156	2158	1606
75°	3738	1622	1171
80°	3151	1050	790
85°	2361	564	444

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5332 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.4
10°-20°	261.3	4.0
20°-30°	378.8	5.8
30°-40°	431.6	6.6
40°-50°	420.7	6.4
50°-60°	354.1	5.4
60°-70°	248.1	3.8
70°-80°	127.2	1.9
80°-90°	33.8	0.5
90°-100°	46.6	0.7
100°-110°	309.6	4.7
110°-120°	557.5	8.5
120°-130°	715.6	10.9
130°-140°	769.7	11.7
140°-150°	722.4	11.0
150°-160°	584.3	8.9
160°-170°	377.9	5.8
170°-180°	130.3	2.0
0°-30°	733.6	11.2
0°-40°	1165.2	17.8
0°-60°	1940.0	29.6
0°-90°	2349.1	35.8
90°-120°	913.7	13.9
90°-150°	3121.4	47.6
90°-180°	4214.0	64.2
0°-180°	6563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	992	989	981	988	987	94
15°	943	939	923	922	915	266
25°	855	844	816	807	798	394
35°	737	719	685	663	653	461
45°	603	582	540	510	499	465
55°	458	434	392	358	346	409
65°	310	284	245	215	203	307
75°	165	143	111	94	89	174
85°	41	28	24	23	22	45
90°	1	9	16	21	24	5
95°	58	55	16	21	21	71
105°	299	303	303	303	302	317
115°	561	566	567	563	557	556
125°	798	805	805	801	798	713
135°	996	1002	1000	998	992	768
145°	1154	1156	1156	1157	1151	722
155°	1271	1265	1267	1270	1262	586
165°	1341	1335	1336	1342	1334	379
175°	1372	1366	1367	1375	1366	131
180°	1372	1372	1372	1372	1372	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.4	993.4	993.4	993.4	993.4
2.5°	995.6	993.4	985.9	993.4	992.6
5°	991.9	988.9	980.6	988.1	986.6
7.5°	984.4	981.4	971.6	977.6	976.1
10°	973.1	970.9	960.4	962.6	960.4
12.5°	960.4	957.4	942.4	943.9	940.1
15°	943.1	938.6	922.9	922.1	915.3
17.5°	925.1	918.3	899.6	895.8	890.6
20°	903.3	895.8	871.8	868.1	861.3
22.5°	879.3	871.8	846.3	838.1	832.8
25°	855.3	844.1	816.3	806.6	798.3
27.5°	828.3	814.8	785.5	772.8	764.5
30°	798.3	784.0	752.5	735.3	728.5
32.5°	769.0	751.8	719.5	700.0	691.0
35°	736.8	718.8	685.0	663.3	652.7
37.5°	706.0	684.3	649.7	624.2	613.7
40°	673.0	650.5	614.5	586.0	577.0
42.5°	638.5	615.2	577.7	550.7	536.5
45°	603.2	581.5	540.2	510.2	498.9
47.5°	566.5	544.0	502.7	471.9	459.2
50°	532.0	507.2	464.4	432.9	421.7
52.5°	494.4	468.9	429.2	394.7	383.4
55°	457.7	433.7	391.6	357.9	345.9
57.5°	420.2	394.7	354.1	321.1	310.6
60°	384.1	357.9	317.4	284.4	273.1
62.5°	345.9	321.1	279.9	249.8	238.6
65°	309.9	284.4	244.6	214.6	203.3
67.5°	273.9	248.3	210.1	181.6	172.6
70°	237.1	211.6	174.1	150.8	141.8
72.5°	201.1	176.3	141.8	120.8	115.5
75°	165.1	142.6	111.0	94.5	89.3
77.5°	128.3	110.3	84.0	71.3	66.8
80°	97.5	79.5	58.5	51.8	50.3
82.5°	67.5	51.8	39.0	36.8	36.0
85°	41.3	27.8	24.0	23.3	22.5
87.5°	17.3	12.0	11.3	11.3	10.5
90°	1.0	9.2	16.3	21.4	24.4
92.5°	19.3	10.2	16.3	21.4	22.4
95°	58.0	54.9	16.3	21.4	21.4
97.5°	108.8	114.9	18.3	20.3	21.4
100°	169.8	172.9	176.9	25.4	21.4
102.5°	231.9	235.9	238.0	240.0	154.6
105°	299.0	303.0	303.0	303.0	302.0
107.5°	368.1	368.1	370.2	371.2	367.1
110°	435.2	435.2	437.3	434.2	435.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	498.3	501.3	502.4	498.3	496.3
115°	561.3	566.4	567.4	563.4	557.3
117.5°	627.4	627.4	631.5	625.4	623.4
120°	688.5	687.4	690.5	688.5	683.4
122.5°	742.4	747.4	748.5	746.4	740.3
125°	798.3	805.4	805.4	801.3	798.3
127.5°	852.2	857.3	856.2	854.2	846.1
130°	901.0	906.1	907.1	904.0	899.0
132.5°	949.8	955.9	952.9	952.9	947.8
135°	995.6	1001.7	999.6	997.6	991.5
137.5°	1038.3	1044.4	1042.3	1042.3	1037.3
140°	1080.0	1082.0	1081.0	1083.0	1076.9
142.5°	1117.6	1118.6	1120.6	1120.6	1114.5
145°	1154.2	1156.2	1156.2	1157.3	1151.2
147.5°	1186.7	1186.7	1187.8	1188.8	1181.7
150°	1217.3	1215.2	1217.3	1219.3	1211.2
152.5°	1246.7	1241.7	1243.7	1245.7	1238.6
155°	1271.2	1265.1	1267.1	1270.1	1262.0
157.5°	1290.5	1287.4	1287.4	1290.5	1282.3
160°	1310.8	1304.7	1305.7	1309.8	1301.7
162.5°	1327.1	1321.0	1322.0	1328.1	1318.9
165°	1341.3	1335.2	1336.2	1342.3	1334.2
167.5°	1352.5	1346.4	1347.4	1354.5	1345.4
170°	1361.7	1354.5	1355.6	1363.7	1354.5
172.5°	1367.8	1360.6	1362.7	1369.8	1360.6
175°	1371.8	1365.7	1366.7	1374.9	1365.7
177.5°	1374.9	1368.8	1369.8	1376.9	1368.8
180°	1371.8	1371.8	1371.8	1371.8	1371.8

(END OF REPORT)