

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: P1035676

Luminaire Tested: S125RDIW-B1090D1050UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035676
REPORT IS A COMBINATION OF REPORTS P1005922 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D1050UB27-4F0-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

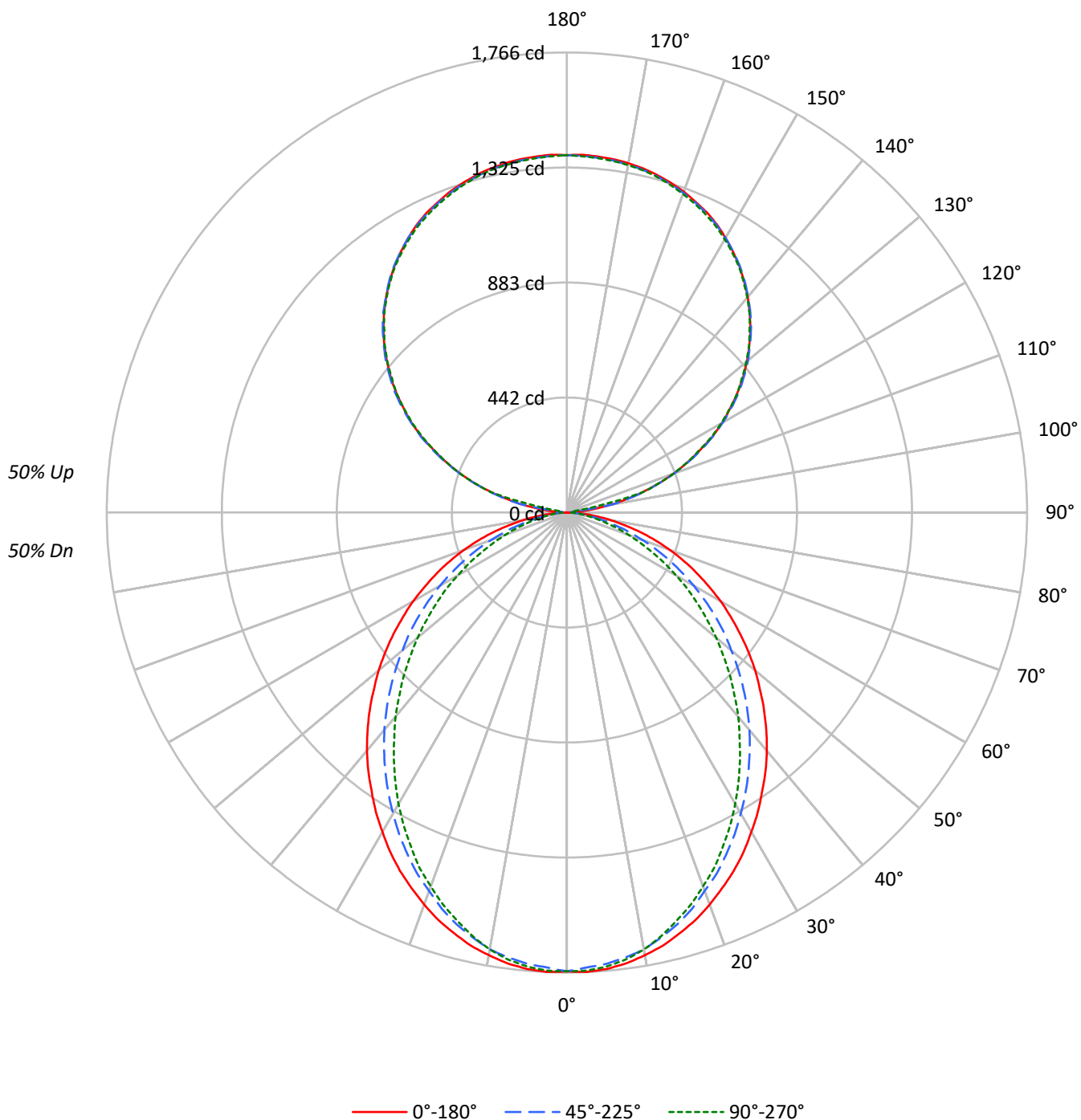
Lumens per Lamp: N/A
Luminaire Lumens: 8378.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	32	29	26
6	63	51	43	38	58	48	41	35	41	35	31	35	30	27	29	26	23
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21
8	54	42	35	29	50	39	32	28	34	29	25	29	25	22	24	21	19
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11287	11287	11287
5°	11288	11005	11023
10°	11178	10728	10633
15°	11019	10340	10121
20°	10824	9873	9584
25°	10599	9417	9008
30°	10325	8915	8403
35°	10044	8406	7760
40°	9777	7883	7133
45°	9456	7319	6475
50°	9130	6720	5806
55°	8753	6129	5113
60°	8367	5454	4394
65°	7907	4700	3619
70°	7369	3827	2848
75°	6627	2877	2075
80°	5591	1864	1399
85°	4185	1002	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9456 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	2.0
10°-20°	463.3	5.5
20°-30°	671.8	8.0
30°-40°	765.4	9.1
40°-50°	746.0	8.9
50°-60°	627.8	7.5
60°-70°	440.0	5.3
70°-80°	225.6	2.7
80°-90°	58.3	0.7
90°-100°	46.6	0.6
100°-110°	309.6	3.7
110°-120°	557.5	6.7
120°-130°	715.6	8.5
130°-140°	769.7	9.2
140°-150°	722.4	8.6
150°-160°	584.3	7.0
160°-170°	377.9	4.5
170°-180°	130.3	1.6
0°-30°	1300.9	15.5
0°-40°	2066.3	24.7
0°-60°	3440.2	41.1
0°-90°	4164.0	49.7
90°-120°	913.7	10.9
90°-150°	3121.4	37.3
90°-180°	4214.0	50.3
0°-180°	8378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1759	1754	1739	1752	1750	167
15°	1672	1664	1636	1635	1623	472
25°	1517	1497	1448	1430	1416	698
35°	1307	1275	1215	1176	1158	818
45°	1070	1031	958	905	885	825
55°	812	769	694	635	613	726
65°	550	504	434	380	361	544
75°	293	253	197	168	158	309
85°	73	49	43	41	40	80
90°	1	9	16	21	24	7
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°	1761.6	1761.6	1761.6	1761.6	1761.6
2.5°	1765.6	1761.6	1748.3	1761.6	1760.3
5°	1758.9	1753.6	1739.0	1752.3	1749.6
7.5°	1745.6	1740.3	1723.0	1733.6	1731.0
10°	1725.7	1721.7	1703.0	1707.0	1703.0
12.5°	1703.0	1697.7	1671.1	1673.8	1667.1
15°	1672.4	1664.5	1636.5	1635.2	1623.2
17.5°	1640.5	1628.5	1595.3	1588.6	1579.3
20°	1601.9	1588.6	1546.0	1539.4	1527.4
22.5°	1559.3	1546.0	1500.8	1486.2	1476.9
25°	1516.8	1496.8	1447.6	1430.3	1415.7
27.5°	1468.9	1444.9	1393.0	1370.4	1355.8
30°	1415.7	1390.4	1334.5	1303.9	1291.9
32.5°	1363.8	1333.2	1276.0	1241.4	1225.4
35°	1306.6	1274.6	1214.7	1176.2	1157.5
37.5°	1252.0	1213.4	1152.2	1107.0	1088.4
40°	1193.5	1153.5	1089.7	1039.1	1023.2
42.5°	1132.3	1091.0	1024.5	976.6	951.3
45°	1069.7	1031.1	958.0	904.7	884.8
47.5°	1004.5	964.6	891.4	836.9	814.3
50°	943.3	899.4	823.6	767.7	747.7
52.5°	876.8	831.6	761.0	699.8	679.9
55°	811.6	769.0	694.5	634.6	613.4
57.5°	745.1	699.8	628.0	569.5	550.8
60°	681.2	634.6	562.8	504.3	484.3
62.5°	613.4	569.5	496.3	443.1	423.1
65°	549.5	504.3	433.7	380.5	360.6
67.5°	485.6	440.4	372.5	322.0	306.0
70°	420.4	375.2	308.7	267.4	251.5
72.5°	356.6	312.7	251.5	214.2	204.9
75°	292.7	252.8	196.9	167.6	158.3
77.5°	227.5	195.6	149.0	126.4	118.4
80°	173.0	141.0	103.8	91.8	89.1
82.5°	119.7	91.8	69.2	65.2	63.9
85°	73.2	49.2	42.6	41.2	39.9
87.5°	30.6	21.3	20.0	20.0	18.6
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)