

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: P1035697

Luminaire Tested: S125RDIW-B1090D1340UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035697
REPORT IS A COMBINATION OF REPORTS P1005967 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D1340UB27-4F0-XX-W2A-F1
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

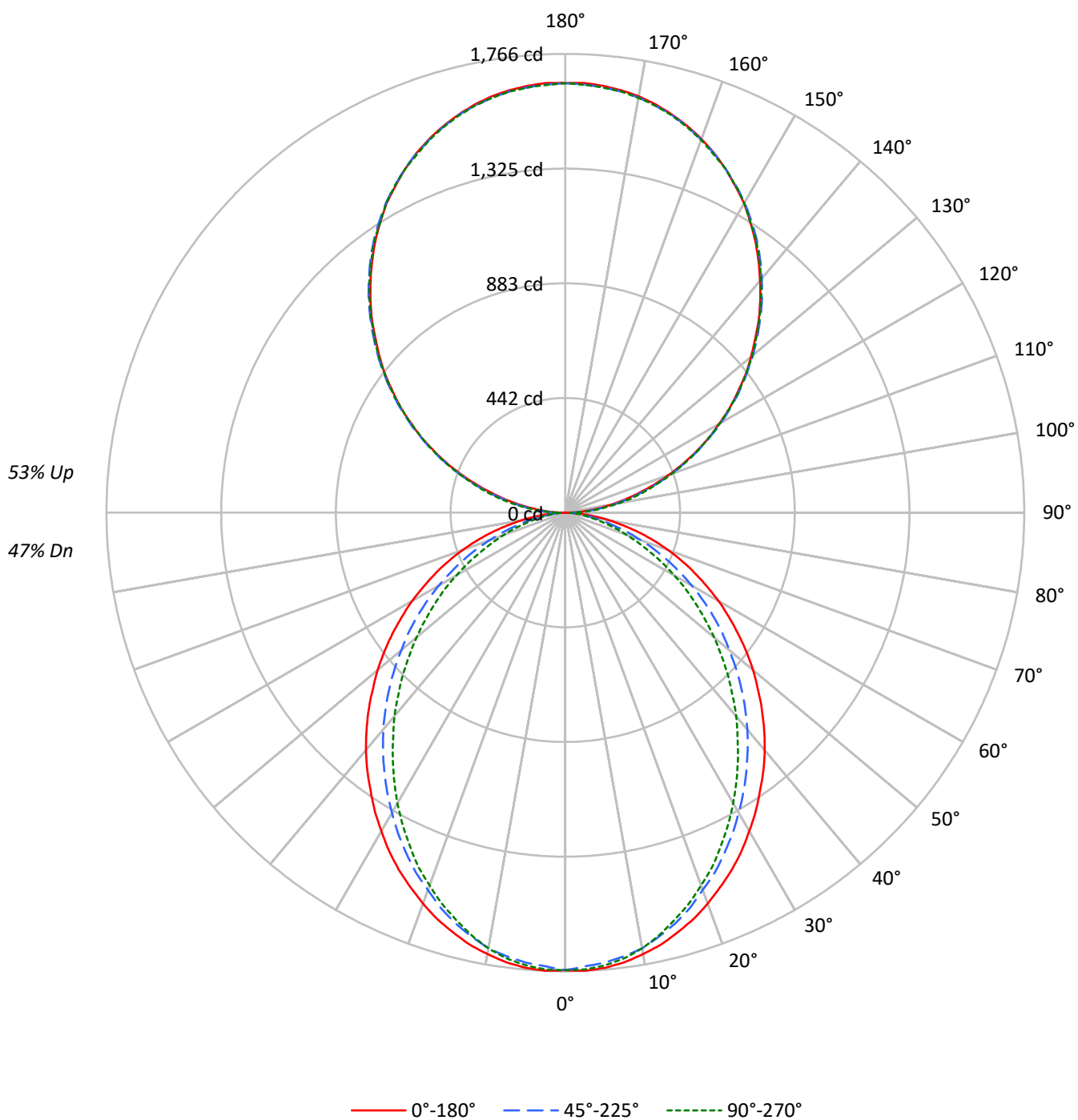
Lumens per Lamp: N/A
Luminaire Lumens: 8779.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 88.9
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	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46
2	89	82	76	71	81	75	70	66	63	60	56	52	50	47	42	41	39
3	81	72	65	59	74	66	60	55	56	51	48	47	43	40	38	35	33
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29
5	68	57	49	43	63	53	46	40	45	39	35	37	33	30	31	28	25
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	18	16
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	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	1.9
10°-20°	463.3	5.3
20°-30°	671.8	7.7
30°-40°	765.4	8.7
40°-50°	746.0	8.5
50°-60°	627.8	7.2
60°-70°	440.0	5.0
70°-80°	225.6	2.6
80°-90°	58.8	0.7
90°-100°	110.0	1.3
100°-110°	326.6	3.7
110°-120°	553.9	6.3
120°-130°	729.2	8.3
130°-140°	817.2	9.3
140°-150°	801.0	9.1
150°-160°	672.8	7.7
160°-170°	447.2	5.1
170°-180°	156.5	1.8
0°-30°	1300.9	14.8
0°-40°	2066.3	23.5
0°-60°	3440.2	39.2
0°-90°	4164.6	47.4
90°-120°	990.5	11.3
90°-150°	3337.9	38.0
90°-180°	4614.0	52.6
0°-180°	8779.0	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	12	21	27	31	10
95°	84	86	99	108	111	87
105°	293	300	308	315	319	313
115°	555	560	562	561	560	549
125°	809	817	818	816	814	725
135°	1052	1060	1062	1062	1056	811
145°	1275	1280	1284	1284	1280	797
155°	1459	1459	1460	1466	1459	672
165°	1586	1584	1585	1590	1583	448
175°	1650	1644	1644	1652	1643	157
180°	1653	1653	1653	1653	1653	



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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°	1.3	11.6	20.6	27.0	30.9
92.5°	38.6	45.0	56.6	65.6	68.2
95°	83.6	86.2	99.1	108.1	110.7
97.5°	128.7	130.0	148.0	155.7	157.0
100°	180.1	180.1	196.9	208.4	211.0
102.5°	235.5	241.9	248.3	261.2	265.1
105°	293.4	299.8	307.5	315.2	319.1
107.5°	356.4	362.8	369.3	373.1	373.1
110°	422.0	428.5	432.3	436.2	434.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	488.9	491.5	496.7	497.9	495.4
115°	554.6	559.7	562.3	561.0	559.7
117.5°	621.5	622.7	625.3	626.6	621.5
120°	683.2	689.7	690.9	690.9	685.8
122.5°	750.1	751.4	755.3	754.0	750.1
125°	809.3	817.0	818.3	815.7	814.5
127.5°	874.9	878.8	880.1	878.8	876.2
130°	932.8	939.3	941.8	940.6	938.0
132.5°	990.7	1002.3	1001.0	999.7	995.9
135°	1052.5	1060.2	1061.5	1061.5	1056.4
137.5°	1110.4	1118.1	1120.7	1122.0	1115.5
140°	1165.7	1172.2	1176.0	1178.6	1172.2
142.5°	1221.1	1226.2	1231.3	1232.6	1226.2
145°	1275.1	1280.2	1284.1	1284.1	1280.2
147.5°	1325.3	1329.1	1331.7	1335.6	1325.3
150°	1375.5	1374.2	1379.3	1379.3	1376.7
152.5°	1416.6	1419.2	1420.5	1424.3	1419.2
155°	1459.1	1459.1	1460.4	1465.5	1459.1
157.5°	1497.7	1495.1	1496.4	1501.5	1492.5
160°	1531.1	1527.3	1528.6	1533.7	1527.3
162.5°	1560.7	1558.2	1558.2	1564.6	1556.9
165°	1586.5	1583.9	1585.2	1590.3	1582.6
167.5°	1609.6	1604.5	1604.5	1612.2	1604.5
170°	1627.6	1622.5	1622.5	1630.2	1621.2
172.5°	1640.5	1635.4	1635.4	1643.1	1635.4
175°	1649.5	1644.4	1644.4	1652.1	1643.1
177.5°	1655.9	1650.8	1649.5	1657.2	1648.2
180°	1653.4	1653.4	1653.4	1653.4	1653.4

(END OF REPORT)