

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: P1028447

Luminaire Tested: S125RDIP-B1090D1270UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028447
REPORT IS A COMBINATION OF REPORTS P1004962 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1270UB27-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

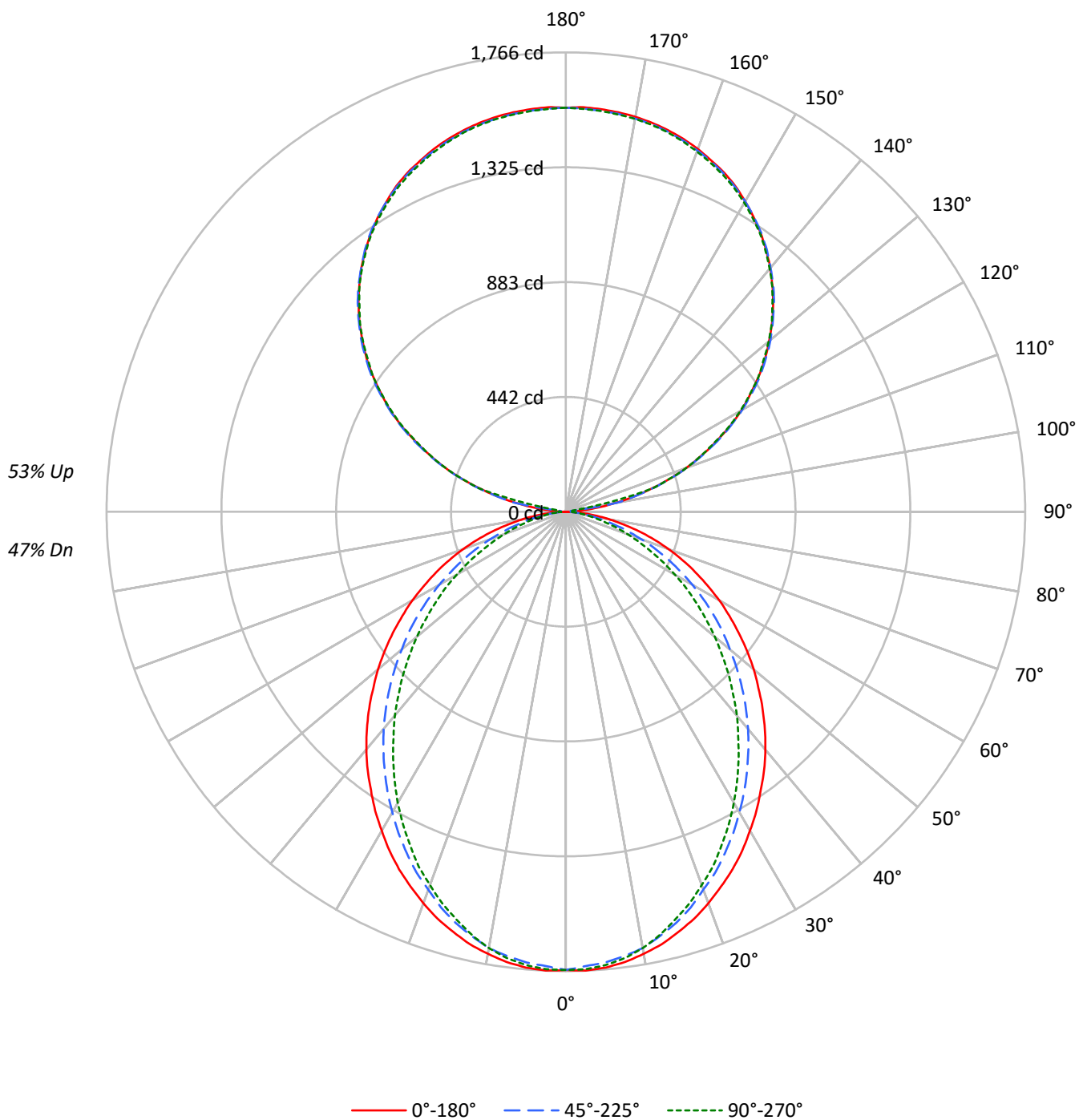
Lumens per Lamp: N/A
Luminaire Lumens: 8936.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53			47
1	97	93	89	86	89	86	82	79	72	69	67	59	57	56	47	46	45			40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38			34
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33			29
4	74	64	56	50	68	59	52	47	50	44	40	41	37	34	33	31	28			25
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25			22
6	63	51	43	37	58	47	40	35	40	35	31	34	29	26	27	24	22			19
7	58	46	38	33	53	43	36	31	36	31	27	31	26	23	25	22	20			17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18			15
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16			14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14			13

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	5.2
20°-30°	671.8	7.5
30°-40°	765.4	8.6
40°-50°	746.0	8.3
50°-60°	627.8	7.0
60°-70°	440.0	4.9
70°-80°	225.6	2.5
80°-90°	58.6	0.7
90°-100°	52.7	0.6
100°-110°	350.6	3.9
110°-120°	631.3	7.1
120°-130°	810.4	9.1
130°-140°	871.6	9.8
140°-150°	818.0	9.2
150°-160°	661.7	7.4
160°-170°	427.9	4.8
170°-180°	147.6	1.7
0°-30°	1300.9	14.6
0°-40°	2066.3	23.1
0°-60°	3440.2	38.5
0°-90°	4164.3	46.6
90°-120°	1034.6	11.6
90°-150°	3534.5	39.6
90°-180°	4772.0	53.4
0°-180°	8936.0	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	10	18	24	28	8
95°	66	62	18	24	24	80
105°	338	343	343	343	342	359
115°	636	641	642	638	631	630
125°	904	912	912	907	904	807
135°	1127	1134	1132	1130	1123	869
145°	1307	1309	1309	1310	1304	817
155°	1439	1432	1435	1438	1429	663
165°	1519	1512	1513	1520	1511	429
175°	1553	1546	1548	1557	1546	148
180°	1553	1553	1553	1553	1553	

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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°	1.2	10.4	18.4	24.2	27.6
92.5°	21.9	11.5	18.4	24.2	25.3
95°	65.6	62.2	18.4	24.2	24.2
97.5°	123.2	130.1	20.7	23.0	24.2
100°	192.3	195.8	200.4	28.8	24.2
102.5°	262.5	267.2	269.5	271.8	175.0
105°	338.5	343.2	343.2	343.2	342.0
107.5°	416.8	416.8	419.2	420.3	415.7
110°	492.8	492.8	495.2	491.7	492.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	564.2	567.7	568.8	564.2	561.9
115°	635.6	641.4	642.5	637.9	631.0
117.5°	710.5	710.5	715.1	708.2	705.9
120°	779.6	778.4	781.9	779.6	773.8
122.5°	840.6	846.4	847.5	845.2	838.3
125°	903.9	912.0	912.0	907.4	903.9
127.5°	965.0	970.7	969.6	967.3	958.1
130°	1020.2	1026.0	1027.2	1023.7	1017.9
132.5°	1075.5	1082.4	1079.0	1079.0	1073.2
135°	1127.3	1134.2	1131.9	1129.6	1122.7
137.5°	1175.7	1182.6	1180.3	1180.3	1174.5
140°	1222.9	1225.2	1224.1	1226.4	1219.5
142.5°	1265.5	1266.7	1269.0	1269.0	1262.1
145°	1307.0	1309.3	1309.3	1310.4	1303.5
147.5°	1343.8	1343.8	1345.0	1346.1	1338.1
150°	1378.4	1376.1	1378.4	1380.7	1371.5
152.5°	1411.8	1406.0	1408.3	1410.6	1402.5
155°	1439.4	1432.5	1434.8	1438.2	1429.0
157.5°	1461.3	1457.8	1457.8	1461.3	1452.1
160°	1484.3	1477.4	1478.5	1483.2	1473.9
162.5°	1502.7	1495.8	1497.0	1503.9	1493.5
165°	1518.8	1511.9	1513.1	1520.0	1510.8
167.5°	1531.5	1524.6	1525.8	1533.8	1523.5
170°	1541.9	1533.8	1535.0	1544.2	1533.8
172.5°	1548.8	1540.7	1543.0	1551.1	1540.7
175°	1553.4	1546.5	1547.6	1556.8	1546.5
177.5°	1556.8	1549.9	1551.1	1559.2	1549.9
180°	1553.4	1553.4	1553.4	1553.4	1553.4

(END OF REPORT)