

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: P1028460

Luminaire Tested: S125RDIP-B1090D1270UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028460
REPORT IS A COMBINATION OF REPORTS P1004985 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1270UB35-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

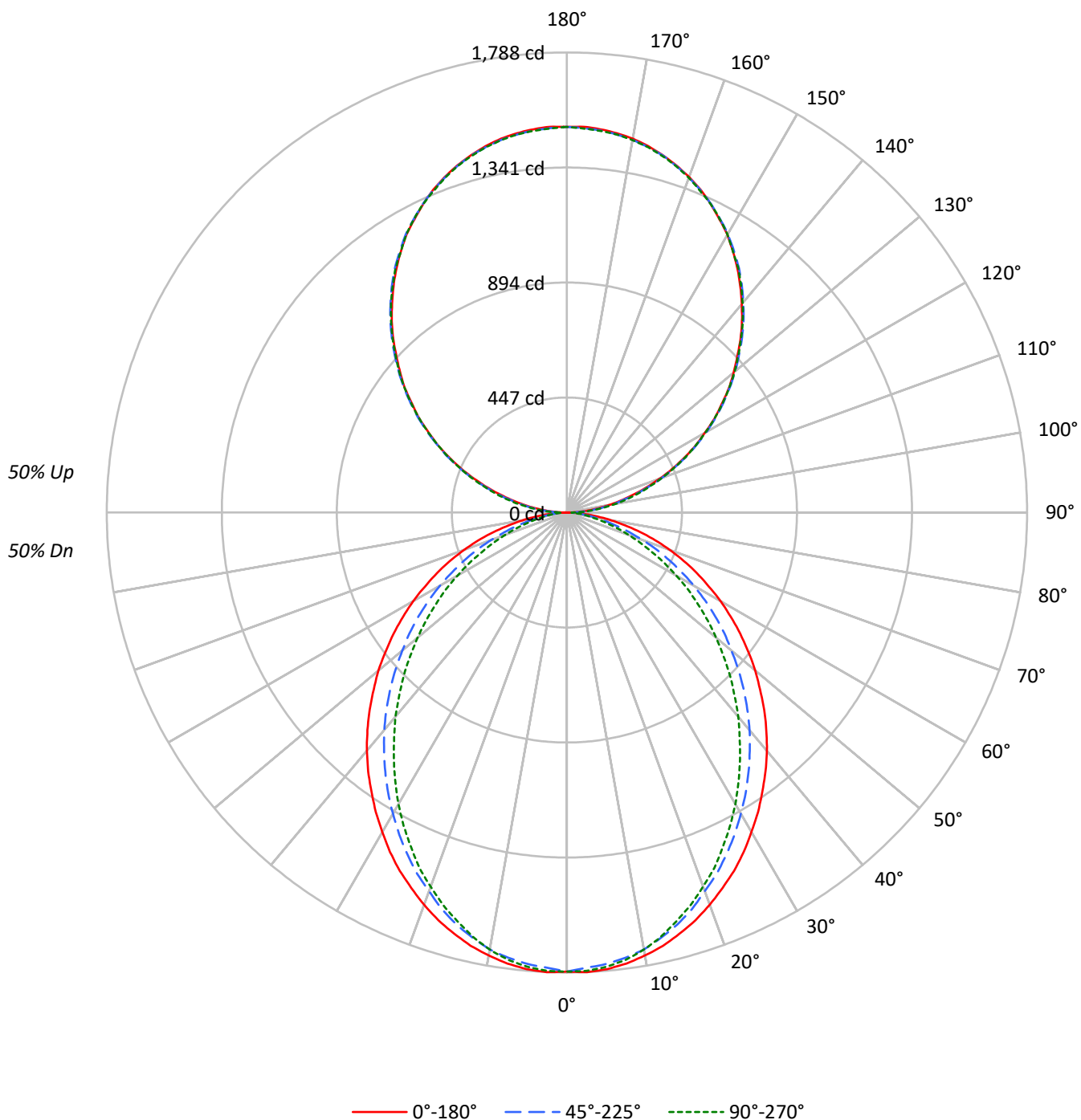
Lumens per Lamp: N/A
Luminaire Lumens: 8401.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	94	90	87	90	87	84	81	74	71	69	61	60	58	50	49	48
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41
3	82	72	65	59	75	67	61	56	57	52	49	48	45	42	39	37	35
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	35	33	30
5	69	57	49	43	63	53	46	41	46	40	36	39	34	31	32	29	26
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	27	23	21
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	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°	11433	11433	11433
5°	11434	11148	11166
10°	11323	10867	10771
15°	11162	10474	10253
20°	10964	10001	9708
25°	10737	9539	9125
30°	10458	9031	8512
35°	10174	8515	7861
40°	9903	7985	7225
45°	9579	7414	6560
50°	9250	6807	5881
55°	8867	6209	5179
60°	8476	5525	4451
65°	8009	4762	3665
70°	7466	3876	2884
75°	6714	2915	2102
80°	5662	1887	1418
85°	4237	1013	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	2.0
10°-20°	469.3	5.6
20°-30°	680.5	8.1
30°-40°	775.3	9.2
40°-50°	755.7	9.0
50°-60°	636.0	7.6
60°-70°	445.7	5.3
70°-80°	228.5	2.7
80°-90°	59.3	0.7
90°-100°	99.7	1.2
100°-110°	296.1	3.5
110°-120°	502.1	6.0
120°-130°	661.0	7.9
130°-140°	740.7	8.8
140°-150°	726.0	8.6
150°-160°	609.8	7.3
160°-170°	405.4	4.8
170°-180°	141.9	1.7
0°-30°	1317.8	15.7
0°-40°	2093.2	24.9
0°-60°	3484.9	41.5
0°-90°	4218.3	50.2
90°-120°	897.8	10.7
90°-150°	3025.6	36.0
90°-180°	4183.0	49.8
0°-180°	8401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1782	1776	1762	1775	1772	169
15°	1694	1686	1658	1656	1644	478
25°	1536	1516	1466	1449	1434	707
35°	1324	1291	1230	1191	1173	829
45°	1084	1044	970	916	896	836
55°	822	779	704	643	621	735
65°	557	511	439	386	365	551
75°	296	256	200	170	160	313
85°	74	50	43	42	40	81
90°	1	10	19	24	28	9
95°	76	78	90	98	100	79
105°	266	272	279	286	289	284
115°	503	507	510	508	507	497
125°	734	741	742	739	738	657
135°	954	961	962	962	958	735
145°	1156	1160	1164	1164	1160	723
155°	1323	1323	1324	1328	1323	609
165°	1438	1436	1437	1442	1434	406
175°	1495	1490	1490	1498	1489	142
180°	1499	1499	1499	1499	1499	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	1788.5	1784.4	1771.0	1784.4	1783.1
5°	1781.7	1776.4	1761.5	1775.0	1772.3
7.5°	1768.3	1762.9	1745.4	1756.1	1753.4
10°	1748.1	1744.0	1725.1	1729.2	1725.1
12.5°	1725.1	1719.7	1692.8	1695.5	1688.8
15°	1694.1	1686.1	1657.8	1656.4	1644.3
17.5°	1661.8	1649.7	1616.0	1609.2	1599.8
20°	1622.7	1609.2	1566.1	1559.4	1547.2
22.5°	1579.6	1566.1	1520.3	1505.5	1496.0
25°	1536.5	1516.2	1466.4	1448.8	1434.0
27.5°	1487.9	1463.7	1411.1	1388.2	1373.4
30°	1434.0	1408.4	1351.8	1320.8	1308.7
32.5°	1381.5	1350.5	1292.5	1257.5	1241.3
35°	1323.5	1291.2	1230.5	1191.4	1172.6
37.5°	1268.2	1229.2	1167.2	1121.3	1102.5
40°	1208.9	1168.5	1103.8	1052.6	1036.4
42.5°	1146.9	1105.2	1037.8	989.3	963.7
45°	1083.6	1044.5	970.4	916.5	896.3
47.5°	1017.6	977.1	903.0	847.7	824.8
50°	955.6	911.1	834.3	777.7	757.4
52.5°	888.2	842.4	770.9	708.9	688.7
55°	822.1	779.0	703.5	642.9	621.3
57.5°	754.7	708.9	636.1	576.8	558.0
60°	690.1	642.9	570.1	510.8	490.6
62.5°	621.3	576.8	502.7	448.8	428.6
65°	556.6	510.8	439.4	385.5	365.2
67.5°	491.9	446.1	377.4	326.2	310.0
70°	425.9	380.1	312.7	270.9	254.7
72.5°	361.2	316.7	254.7	217.0	207.6
75°	296.5	256.1	199.5	169.8	160.4
77.5°	230.5	198.1	150.9	128.0	120.0
80°	175.2	142.9	105.1	93.0	90.3
82.5°	121.3	93.0	70.1	66.0	64.7
85°	74.1	49.9	43.1	41.8	40.4
87.5°	31.0	21.6	20.2	20.2	18.9
90°	1.2	10.5	18.7	24.5	28.0
92.5°	35.0	40.8	51.3	59.5	61.8
95°	75.8	78.1	89.8	98.0	100.3
97.5°	116.6	117.8	134.1	141.1	142.3
100°	163.3	163.3	178.4	188.9	191.3
102.5°	213.4	219.3	225.1	236.8	240.3
105°	265.9	271.7	278.7	285.7	289.2
107.5°	323.1	328.9	334.7	338.2	338.2
110°	382.5	388.4	391.9	395.4	394.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	443.2	445.5	450.2	451.4	449.0
115°	502.7	507.3	509.7	508.5	507.3
117.5°	563.3	564.5	566.8	568.0	563.3
120°	619.3	625.1	626.3	626.3	621.6
122.5°	679.9	681.1	684.6	683.4	679.9
125°	733.6	740.6	741.8	739.4	738.3
127.5°	793.1	796.6	797.7	796.6	794.2
130°	845.6	851.4	853.7	852.6	850.2
132.5°	898.0	908.5	907.4	906.2	902.7
135°	954.0	961.0	962.2	962.2	957.5
137.5°	1006.5	1013.5	1015.8	1017.0	1011.2
140°	1056.6	1062.5	1066.0	1068.3	1062.5
142.5°	1106.8	1111.5	1116.1	1117.3	1111.5
145°	1155.8	1160.4	1163.9	1163.9	1160.4
147.5°	1201.3	1204.8	1207.1	1210.6	1201.3
150°	1246.8	1245.6	1250.3	1250.3	1247.9
152.5°	1284.1	1286.4	1287.6	1291.1	1286.4
155°	1322.6	1322.6	1323.7	1328.4	1322.6
157.5°	1357.6	1355.2	1356.4	1361.0	1352.9
160°	1387.9	1384.4	1385.5	1390.2	1384.4
162.5°	1414.7	1412.4	1412.4	1418.2	1411.2
165°	1438.0	1435.7	1436.9	1441.5	1434.5
167.5°	1459.0	1454.4	1454.4	1461.3	1454.4
170°	1475.3	1470.7	1470.7	1477.7	1469.5
172.5°	1487.0	1482.3	1482.3	1489.3	1482.3
175°	1495.2	1490.5	1490.5	1497.5	1489.3
177.5°	1501.0	1496.3	1495.2	1502.2	1494.0
180°	1498.7	1498.7	1498.7	1498.7	1498.7

(END OF REPORT)