

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: P1028454

Luminaire Tested: S125RDIP-B1090D1270UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028454
REPORT IS A COMBINATION OF REPORTS P1004979 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1270UB30-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

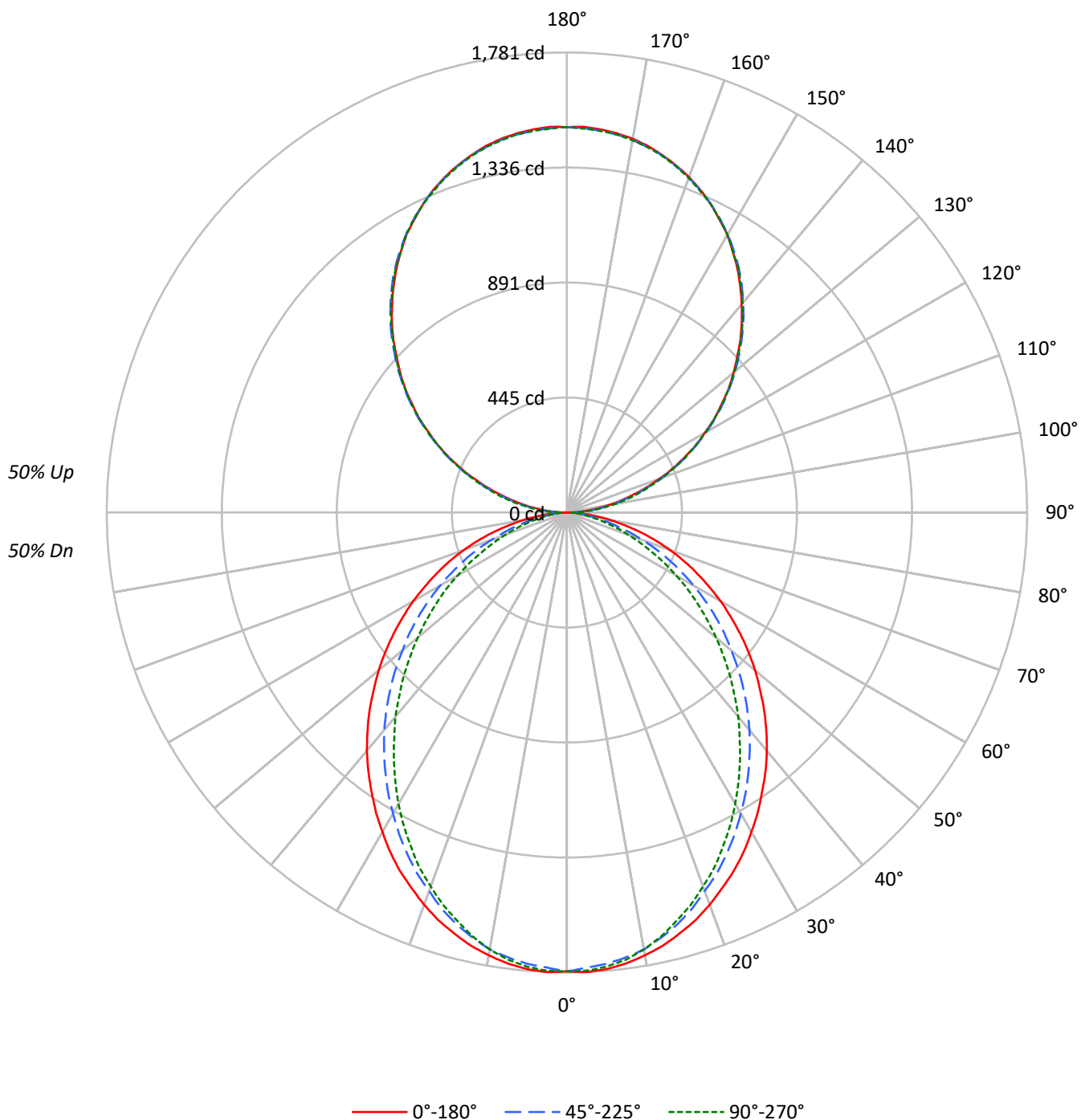
Lumens per Lamp: N/A
Luminaire Lumens: 8365.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	11384	11384	11384
5°	11385	11100	11118
10°	11275	10821	10726
15°	11115	10429	10209
20°	10918	9958	9667
25°	10691	9498	9086
30°	10414	8992	8476
35°	10131	8479	7827
40°	9862	7951	7194
45°	9538	7382	6531
50°	9210	6778	5856
55°	8829	6182	5157
60°	8439	5502	4432
65°	7976	4741	3650
70°	7434	3859	2872
75°	6684	2902	2093
80°	5639	1880	1411
85°	4220	1009	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	2.0
10°-20°	467.3	5.6
20°-30°	677.6	8.1
30°-40°	772.0	9.2
40°-50°	752.5	9.0
50°-60°	633.3	7.6
60°-70°	443.8	5.3
70°-80°	227.5	2.7
80°-90°	59.1	0.7
90°-100°	99.2	1.2
100°-110°	294.8	3.5
110°-120°	499.9	6.0
120°-130°	658.2	7.9
130°-140°	737.5	8.8
140°-150°	722.9	8.6
150°-160°	607.2	7.3
160°-170°	403.6	4.8
170°-180°	141.3	1.7
0°-30°	1312.2	15.7
0°-40°	2084.2	24.9
0°-60°	3470.0	41.5
0°-90°	4200.3	50.2
90°-120°	894.0	10.7
90°-150°	3012.5	36.0
90°-180°	4165.0	49.8
0°-180°	8365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1774	1769	1754	1767	1765	168
15°	1687	1679	1651	1649	1637	476
25°	1530	1510	1460	1443	1428	704
35°	1318	1286	1225	1186	1168	825
45°	1079	1040	966	913	892	832
55°	819	776	700	640	619	732
65°	554	509	438	384	364	549
75°	295	255	199	169	160	312
85°	74	50	43	42	40	81
90°	1	10	19	24	28	9
95°	76	78	89	98	100	79
105°	265	271	278	284	288	282
115°	500	505	508	506	505	495
125°	730	737	739	736	735	654
135°	950	957	958	958	953	732
145°	1151	1156	1159	1159	1156	719
155°	1317	1317	1318	1323	1317	607
165°	1432	1430	1431	1435	1428	404
175°	1489	1484	1484	1491	1483	141
180°	1492	1492	1492	1492	1492	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.8	1776.8	1776.8	1776.8	1776.8
2.5°	1780.8	1776.8	1763.4	1776.8	1775.5
5°	1774.1	1768.8	1754.0	1767.4	1764.7
7.5°	1760.7	1755.4	1737.9	1748.6	1746.0
10°	1740.6	1736.6	1717.8	1721.8	1717.8
12.5°	1717.8	1712.4	1685.6	1688.3	1681.5
15°	1686.9	1678.9	1650.7	1649.3	1637.3
17.5°	1654.7	1642.6	1609.1	1602.4	1593.0
20°	1615.8	1602.4	1559.4	1552.7	1540.6
22.5°	1572.8	1559.4	1513.8	1499.0	1489.6
25°	1529.9	1509.8	1460.1	1442.7	1427.9
27.5°	1481.6	1457.4	1405.1	1382.3	1367.5
30°	1427.9	1402.4	1346.0	1315.2	1303.1
32.5°	1375.6	1344.7	1287.0	1252.1	1236.0
35°	1317.9	1285.6	1225.3	1186.3	1167.5
37.5°	1262.8	1223.9	1162.2	1116.6	1097.8
40°	1203.8	1163.5	1099.1	1048.1	1032.0
42.5°	1142.1	1100.4	1033.3	985.0	959.5
45°	1079.0	1040.1	966.2	912.6	892.4
47.5°	1013.2	973.0	899.1	844.1	821.3
50°	951.5	907.2	830.7	774.3	754.2
52.5°	884.4	838.8	767.6	705.9	685.8
55°	818.6	775.7	700.5	640.1	618.7
57.5°	751.5	705.9	633.4	574.4	555.6
60°	687.1	640.1	567.7	508.6	488.5
62.5°	618.7	574.4	500.6	446.9	426.8
65°	554.3	508.6	437.5	383.8	363.7
67.5°	489.8	444.2	375.8	324.8	308.7
70°	424.1	378.4	311.3	269.7	253.6
72.5°	359.7	315.4	253.6	216.1	206.7
75°	295.2	255.0	198.6	169.1	159.7
77.5°	229.5	197.3	150.3	127.5	119.4
80°	174.5	142.3	104.7	92.6	89.9
82.5°	120.8	92.6	69.8	65.8	64.4
85°	73.8	49.7	42.9	41.6	40.3
87.5°	30.9	21.5	20.1	20.1	18.8
90°	1.2	10.5	18.6	24.4	27.9
92.5°	34.8	40.6	51.1	59.2	61.5
95°	75.5	77.8	89.4	97.5	99.9
97.5°	116.1	117.3	133.5	140.5	141.7
100°	162.6	162.6	177.7	188.1	190.4
102.5°	212.5	218.3	224.1	235.7	239.2
105°	264.8	270.6	277.5	284.5	288.0
107.5°	321.7	327.5	333.3	336.8	336.8
110°	380.9	386.7	390.2	393.7	392.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	441.3	443.6	448.2	449.4	447.1
115°	500.5	505.1	507.5	506.3	505.1
117.5°	560.9	562.1	564.4	565.5	560.9
120°	616.6	622.4	623.6	623.6	619.0
122.5°	677.0	678.2	681.7	680.5	677.0
125°	730.4	737.4	738.6	736.2	735.1
127.5°	789.7	793.1	794.3	793.1	790.8
130°	841.9	847.7	850.0	848.9	846.6
132.5°	894.2	904.6	903.5	902.3	898.8
135°	949.9	956.9	958.0	958.0	953.4
137.5°	1002.2	1009.1	1011.5	1012.6	1006.8
140°	1052.1	1057.9	1061.4	1063.7	1057.9
142.5°	1102.0	1106.7	1111.3	1112.5	1106.7
145°	1150.8	1155.5	1158.9	1158.9	1155.5
147.5°	1196.1	1199.6	1201.9	1205.4	1196.1
150°	1241.4	1240.2	1244.9	1244.9	1242.6
152.5°	1278.6	1280.9	1282.0	1285.5	1280.9
155°	1316.9	1316.9	1318.0	1322.7	1316.9
157.5°	1351.7	1349.4	1350.5	1355.2	1347.1
160°	1381.9	1378.4	1379.6	1384.2	1378.4
162.5°	1408.6	1406.3	1406.3	1412.1	1405.1
165°	1431.8	1429.5	1430.7	1435.3	1428.4
167.5°	1452.7	1448.1	1448.1	1455.1	1448.1
170°	1469.0	1464.4	1464.4	1471.3	1463.2
172.5°	1480.6	1476.0	1476.0	1482.9	1476.0
175°	1488.7	1484.1	1484.1	1491.1	1482.9
177.5°	1494.5	1489.9	1488.7	1495.7	1487.6
180°	1492.2	1492.2	1492.2	1492.2	1492.2

(END OF REPORT)