

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: P1028448

Luminaire Tested: S125RDIP-B1090D1270UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028448
REPORT IS A COMBINATION OF REPORTS P1004963 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-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

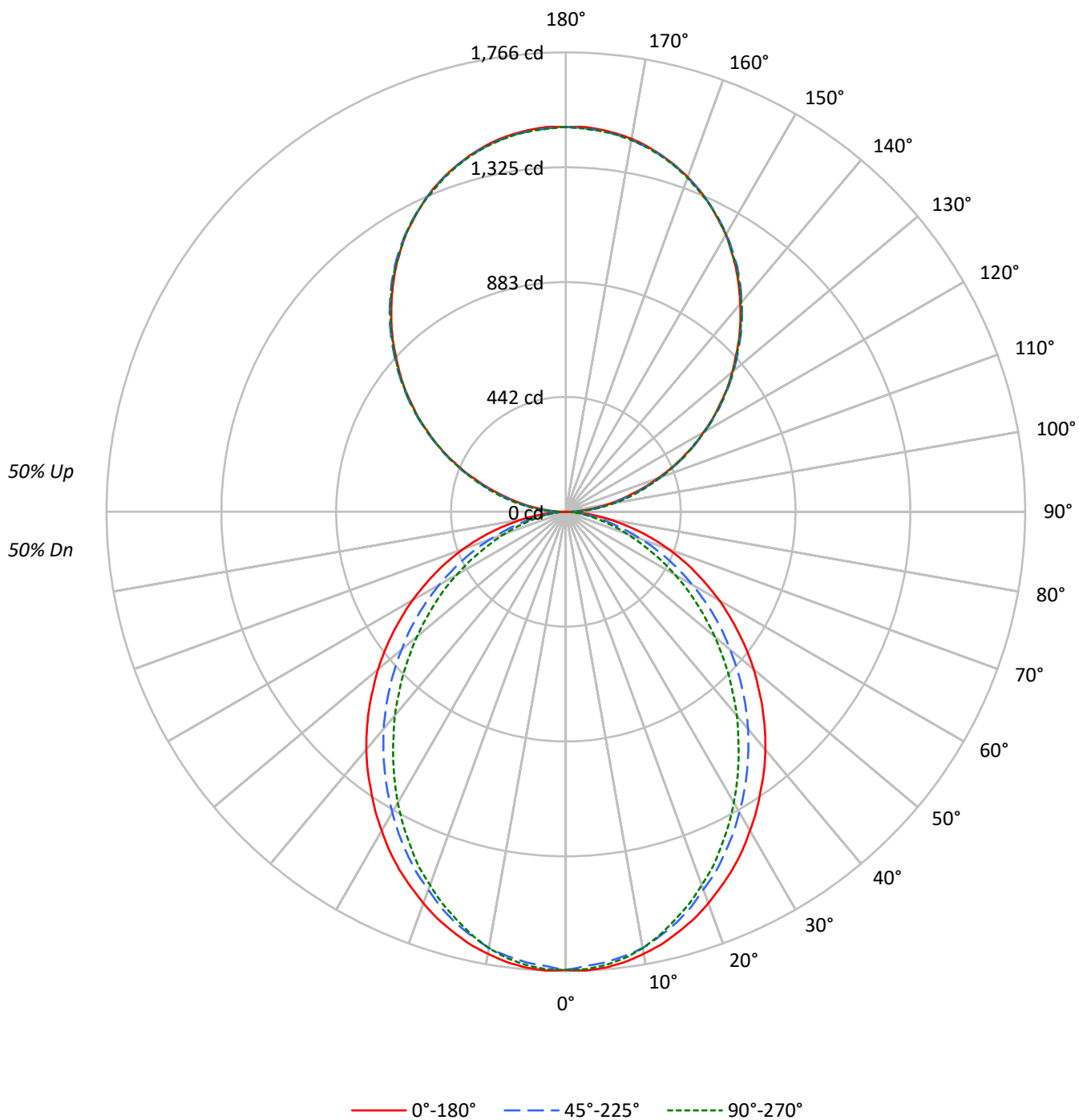
Lumens per Lamp: N/A
Luminaire Lumens: 8293.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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	5.6
20°-30°	671.8	8.1
30°-40°	765.4	9.2
40°-50°	746.0	9.0
50°-60°	627.8	7.6
60°-70°	440.0	5.3
70°-80°	225.6	2.7
80°-90°	58.6	0.7
90°-100°	98.4	1.2
100°-110°	292.2	3.5
110°-120°	495.6	6.0
120°-130°	652.5	7.9
130°-140°	731.2	8.8
140°-150°	716.7	8.6
150°-160°	602.0	7.3
160°-170°	400.2	4.8
170°-180°	140.0	1.7
0°-30°	1300.9	15.7
0°-40°	2066.3	24.9
0°-60°	3440.2	41.5
0°-90°	4164.3	50.2
90°-120°	886.2	10.7
90°-150°	2986.5	36.0
90°-180°	4129.0	49.8
0°-180°	8293.0	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	9
95°	75	77	89	97	99	78
105°	262	268	275	282	286	280
115°	496	501	503	502	501	491
125°	724	731	732	730	729	649
135°	942	949	950	950	945	726
145°	1141	1146	1149	1149	1146	713
155°	1306	1306	1307	1311	1306	601
165°	1420	1417	1418	1423	1416	401
175°	1476	1471	1471	1478	1470	140
180°	1479	1479	1479	1479	1479	

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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°	34.5	40.3	50.7	58.7	61.0
95°	74.8	77.1	88.6	96.7	99.0
97.5°	115.1	116.3	132.4	139.3	140.5
100°	161.2	161.2	176.1	186.5	188.8
102.5°	210.7	216.4	222.2	233.7	237.2
105°	262.5	268.2	275.1	282.1	285.5
107.5°	318.9	324.6	330.4	333.9	333.9
110°	377.6	383.4	386.8	390.3	389.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.5	439.8	444.4	445.5	443.2
115°	496.2	500.8	503.1	501.9	500.8
117.5°	556.0	557.2	559.5	560.6	556.0
120°	611.3	617.1	618.2	618.2	613.6
122.5°	671.2	672.3	675.8	674.6	671.2
125°	724.1	731.0	732.2	729.9	728.7
127.5°	782.8	786.3	787.4	786.3	784.0
130°	834.6	840.4	842.7	841.6	839.2
132.5°	886.4	896.8	895.7	894.5	891.1
135°	941.7	948.6	949.8	949.8	945.2
137.5°	993.5	1000.4	1002.7	1003.9	998.1
140°	1043.0	1048.8	1052.2	1054.5	1048.8
142.5°	1092.5	1097.1	1101.7	1102.9	1097.1
145°	1140.9	1145.5	1148.9	1148.9	1145.5
147.5°	1185.8	1189.2	1191.5	1195.0	1185.8
150°	1230.7	1229.5	1234.1	1234.1	1231.8
152.5°	1267.5	1269.8	1271.0	1274.4	1269.8
155°	1305.5	1305.5	1306.6	1311.3	1305.5
157.5°	1340.0	1337.7	1338.9	1343.5	1335.4
160°	1370.0	1366.5	1367.7	1372.3	1366.5
162.5°	1396.4	1394.1	1394.1	1399.9	1393.0
165°	1419.5	1417.2	1418.3	1422.9	1416.0
167.5°	1440.2	1435.6	1435.6	1442.5	1435.6
170°	1456.3	1451.7	1451.7	1458.6	1450.6
172.5°	1467.8	1463.2	1463.2	1470.1	1463.2
175°	1475.9	1471.3	1471.3	1478.2	1470.1
177.5°	1481.6	1477.0	1475.9	1482.8	1474.7
180°	1479.3	1479.3	1479.3	1479.3	1479.3

(END OF REPORT)