

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: P1027356

Luminaire Tested: S125DIP-B1090D1270UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027356
REPORT IS A COMBINATION OF REPORTS P1001286 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

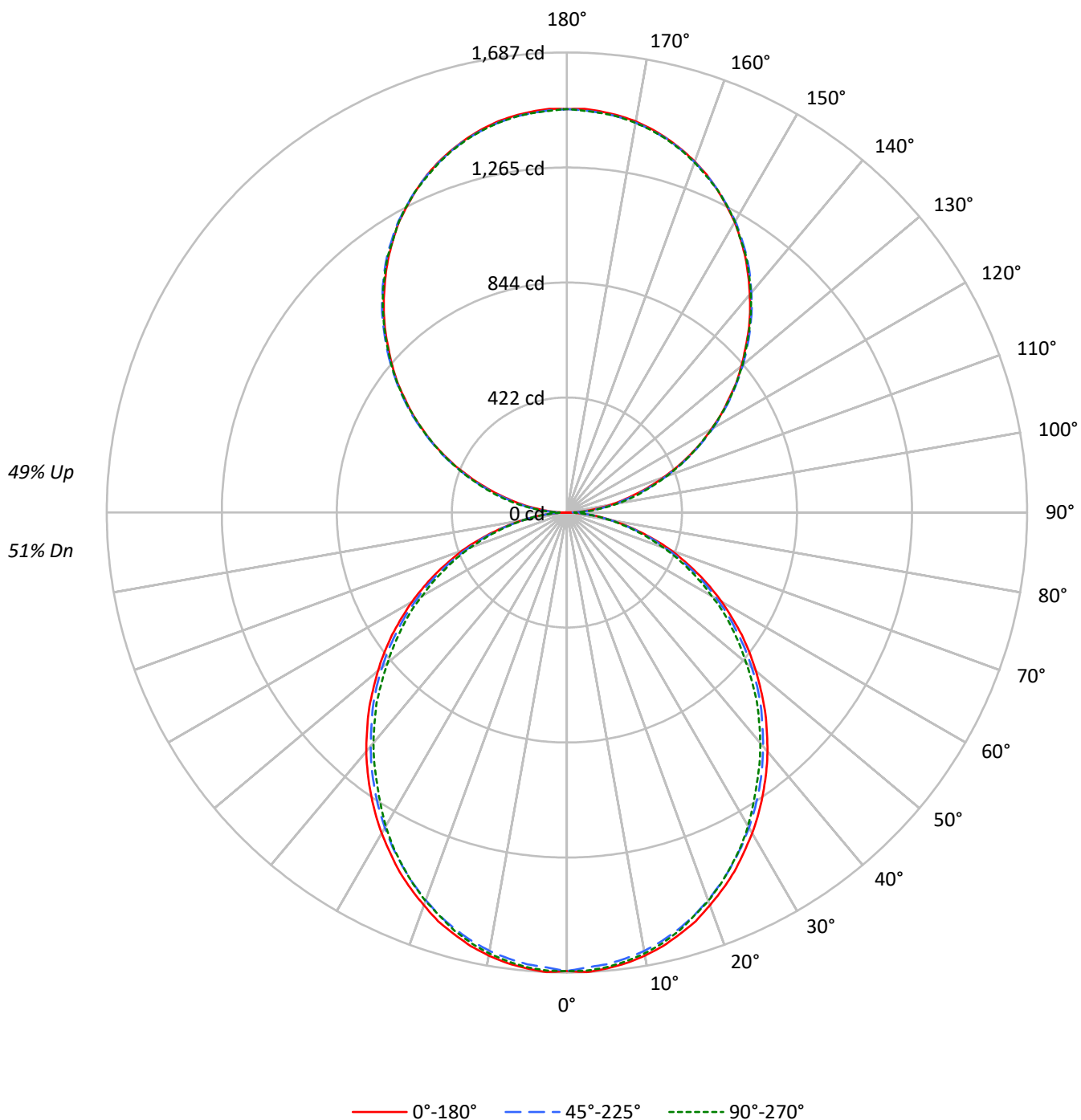
Lumens per Lamp: N/A
Luminaire Lumens: 8508.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1027356

CATALOG NUMBER: S125DIP-B1090D1270UB27-4F0-XX-W2A-F1

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	57	57	57
1	98	94	90	86	90	87	83	80	74	71	69	62	60	58	51	50	48	48	48	48
2	89	82	76	70	82	76	70	66	65	61	57	54	51	49	45	43	41	41	41	41
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	37	35	35	35	35
4	74	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30	30	30	30
5	68	57	48	42	63	53	45	40	45	40	35	38	34	31	32	29	26	26	26	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	25	23	23	23	23
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20	20	20	20
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	18	18	18
9	50	38	31	25	46	36	29	24	31	25	22	26	22	19	22	19	16	16	16	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15	15	15	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10775	10775	10775
5°	10775	10525	10545
10°	10686	10284	10251
15°	10546	9995	9905
20°	10356	9660	9508
25°	10152	9295	9084
30°	9907	8915	8636
35°	9644	8517	8135
40°	9373	8095	7688
45°	9080	7684	7215
50°	8757	7218	6663
55°	8437	6705	6155
60°	8056	6164	5564
65°	7600	5537	4954
70°	7136	4816	4249
75°	6356	3965	3436
80°	5416	2962	2528
85°	4185	1752	1393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9080 cd/sqm

TEST NUMBER: P1027356

CATALOG NUMBER: S125DIP-B1090D1270UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	1.9
10°-20°	448.2	5.3
20°-30°	661.7	7.8
30°-40°	772.1	9.1
40°-50°	775.4	9.1
50°-60°	680.7	8.0
60°-70°	507.0	6.0
70°-80°	289.6	3.4
80°-90°	85.9	1.0
90°-100°	98.4	1.2
100°-110°	292.2	3.4
110°-120°	495.6	5.8
120°-130°	652.5	7.7
130°-140°	731.2	8.6
140°-150°	716.7	8.4
150°-160°	602.0	7.1
160°-170°	400.2	4.7
170°-180°	140.0	1.6
0°-30°	1268.7	14.9
0°-40°	2040.7	24.0
0°-60°	3496.8	41.1
0°-90°	4379.3	51.5
90°-120°	886.2	10.4
90°-150°	2986.5	35.1
90°-180°	4129.0	48.5
0°-180°	8508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1679	1676	1663	1675	1674	159
15°	1600	1596	1582	1588	1588	451
25°	1453	1446	1429	1432	1428	668
35°	1255	1249	1231	1224	1213	785
45°	1027	1022	1006	990	986	791
55°	782	778	760	748	738	698
65°	528	526	511	499	494	524
75°	281	278	271	267	262	299
85°	73	74	74	73	70	80
90°	1	10	18	24	28	10
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	

TEST NUMBER: P1027356

CATALOG NUMBER: S125DIP-B1090D1270UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1687.0	1683.0	1669.7	1683.0	1681.7
5°	1679.0	1676.4	1663.1	1675.0	1673.7
7.5°	1667.0	1664.4	1649.7	1661.7	1660.4
10°	1649.7	1647.1	1632.5	1643.1	1641.8
12.5°	1628.5	1623.1	1609.8	1617.8	1617.8
15°	1600.5	1596.5	1581.9	1588.5	1588.5
17.5°	1571.3	1564.6	1550.0	1557.9	1551.3
20°	1532.7	1530.0	1512.7	1522.0	1515.4
22.5°	1494.1	1488.8	1472.8	1478.1	1474.1
25°	1452.8	1446.2	1428.9	1431.6	1427.6
27.5°	1404.9	1401.0	1383.7	1385.0	1381.0
30°	1358.4	1354.4	1334.4	1331.8	1327.8
32.5°	1307.8	1301.2	1283.9	1278.6	1270.6
35°	1254.6	1249.3	1230.7	1224.0	1213.4
37.5°	1200.1	1193.4	1176.1	1166.8	1160.1
40°	1144.2	1137.5	1118.9	1106.9	1102.9
42.5°	1084.3	1079.0	1060.4	1049.7	1043.1
45°	1027.1	1021.8	1005.8	989.8	985.9
47.5°	964.6	965.9	945.9	930.0	920.7
50°	904.7	900.7	884.7	867.4	858.1
52.5°	843.5	840.8	823.5	808.9	798.3
55°	782.3	778.3	759.7	747.7	738.4
57.5°	717.1	715.8	699.8	683.8	679.9
60°	655.9	650.6	636.0	622.6	613.3
62.5°	592.0	588.1	576.1	561.4	554.8
65°	528.2	525.5	510.9	498.9	493.6
67.5°	465.7	460.3	449.7	439.0	436.4
70°	407.1	400.5	388.5	380.5	375.2
72.5°	343.3	339.3	332.6	323.3	318.0
75°	280.7	278.1	271.4	267.4	262.1
77.5°	222.2	220.9	216.9	214.2	210.2
80°	167.6	167.6	165.0	163.6	161.0
82.5°	119.7	117.1	117.1	114.4	114.4
85°	73.2	74.5	74.5	73.2	70.5
87.5°	35.9	35.9	34.6	34.6	31.9
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

TEST NUMBER: P1027356

CATALOG NUMBER: S125DIP-B1090D1270UB27-4F0-XX-W2A-F1

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)