

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: P1027374

Luminaire Tested: S125DIP-B1090D1270UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027374
REPORT IS A COMBINATION OF REPORTS P1001319 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB35-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

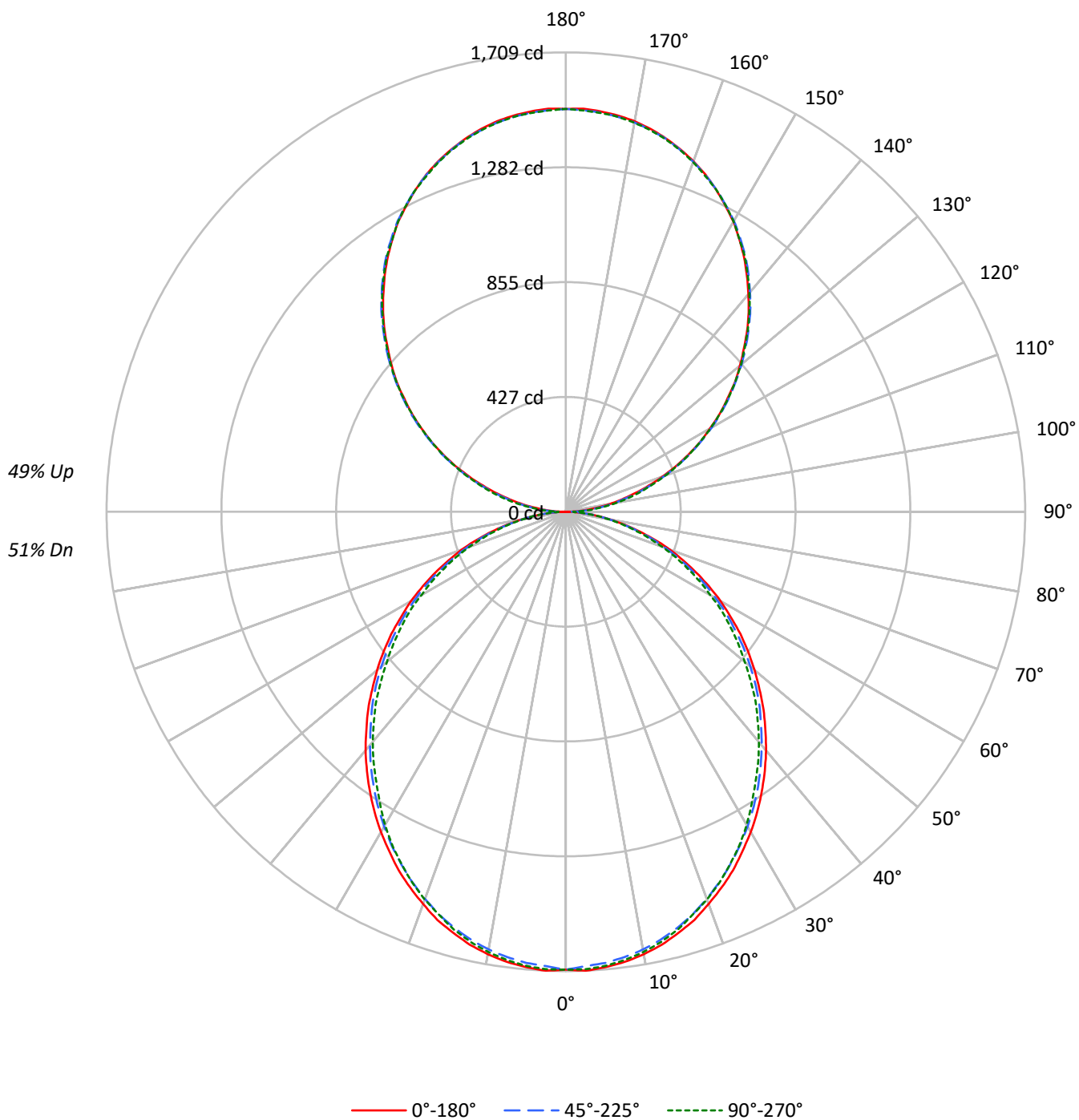
Lumens per Lamp: N/A
Luminaire Lumens: 8619.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57
1	98	94	90	86	90	87	83	80	74	71	69		62	60	58		51
2	89	82	76	70	82	76	70	66	65	61	57		54	51	49		45
3	81	72	64	59	75	67	60	55	57	52	48		48	44	41		39
4	74	64	56	50	69	59	52	47	51	45	41		43	39	35		35
5	68	57	48	42	63	53	45	40	45	40	35		38	34	31		32
6	63	51	43	37	58	47	40	35	41	35	31		35	30	27		29
7	58	46	38	32	54	43	36	31	37	31	27		31	27	24		26
8	54	42	34	29	50	39	32	27	34	28	24		29	24	21		24
9	50	38	31	25	46	36	29	24	31	25	22		26	22	19		22
10	47	35	28	23	43	33	26	22	28	23	19		24	20	17		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10915	10915	10915
5°	10916	10662	10682
10°	10825	10417	10384
15°	10683	10125	10034
20°	10491	9786	9632
25°	10285	9416	9202
30°	10036	9031	8749
35°	9769	8627	8241
40°	9495	8200	7789
45°	9198	7784	7309
50°	8871	7313	6750
55°	8547	6792	6235
60°	8162	6243	5637
65°	7700	5608	5018
70°	7229	4878	4305
75°	6440	4017	3480
80°	5487	3000	2560
85°	4237	1775	1410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.9
10°-20°	454.1	5.3
20°-30°	670.4	7.8
30°-40°	782.1	9.1
40°-50°	785.5	9.1
50°-60°	689.5	8.0
60°-70°	513.6	6.0
70°-80°	293.3	3.4
80°-90°	87.0	1.0
90°-100°	99.7	1.2
100°-110°	296.1	3.4
110°-120°	502.1	5.8
120°-130°	661.0	7.7
130°-140°	740.7	8.6
140°-150°	726.0	8.4
150°-160°	609.8	7.1
160°-170°	405.4	4.7
170°-180°	141.9	1.6
0°-30°	1285.2	14.9
0°-40°	2067.3	24.0
0°-60°	3542.4	41.1
0°-90°	4436.3	51.5
90°-120°	897.8	10.4
90°-150°	3025.6	35.1
90°-180°	4183.0	48.5
0°-180°	8619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1701	1698	1685	1697	1696	161
15°	1621	1617	1602	1609	1609	457
25°	1472	1465	1448	1450	1446	677
35°	1271	1266	1247	1240	1229	795
45°	1040	1035	1019	1003	999	802
55°	792	788	770	757	748	707
65°	535	532	518	505	500	531
75°	284	282	275	271	266	303
85°	74	76	76	74	71	81
90°	1	10	19	24	28	10
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°	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1709.0	1704.9	1691.5	1704.9	1703.6
5°	1700.9	1698.2	1684.7	1696.8	1695.5
7.5°	1688.8	1686.1	1671.2	1683.4	1682.0
10°	1671.2	1668.5	1653.7	1664.5	1663.1
12.5°	1649.7	1644.3	1630.8	1638.9	1638.9
15°	1621.4	1617.3	1602.5	1609.2	1609.2
17.5°	1591.7	1585.0	1570.2	1578.2	1571.5
20°	1552.6	1549.9	1532.4	1541.8	1535.1
22.5°	1513.5	1508.2	1492.0	1497.4	1493.3
25°	1471.8	1465.0	1447.5	1450.2	1446.2
27.5°	1423.2	1419.2	1401.7	1403.0	1399.0
30°	1376.1	1372.0	1351.8	1349.1	1345.1
32.5°	1324.9	1318.1	1300.6	1295.2	1287.1
35°	1270.9	1265.6	1246.7	1239.9	1229.2
37.5°	1215.7	1208.9	1191.4	1182.0	1175.3
40°	1159.1	1152.3	1133.5	1121.3	1117.3
42.5°	1098.4	1093.0	1074.2	1063.4	1056.7
45°	1040.5	1035.1	1018.9	1002.7	998.7
47.5°	977.1	978.5	958.3	942.1	932.7
50°	916.5	912.4	896.3	878.7	869.3
52.5°	854.5	851.8	834.3	819.4	808.7
55°	792.5	788.4	769.6	757.4	748.0
57.5°	726.4	725.1	708.9	692.8	688.7
60°	664.5	659.1	644.2	630.8	621.3
62.5°	599.8	595.7	583.6	568.8	562.0
65°	535.1	532.4	517.5	505.4	500.0
67.5°	471.7	466.3	455.5	444.8	442.1
70°	412.4	405.7	393.5	385.5	380.1
72.5°	347.7	343.7	336.9	327.5	322.1
75°	284.4	281.7	274.9	270.9	265.5
77.5°	225.1	223.7	219.7	217.0	212.9
80°	169.8	169.8	167.1	165.8	163.1
82.5°	121.3	118.6	118.6	115.9	115.9
85°	74.1	75.5	75.5	74.1	71.4
87.5°	36.4	36.4	35.0	35.0	32.3
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)