

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: P1027602

Luminaire Tested: S125DIP-B1270D1270UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027602
REPORT IS A COMBINATION OF REPORTS P1001625 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

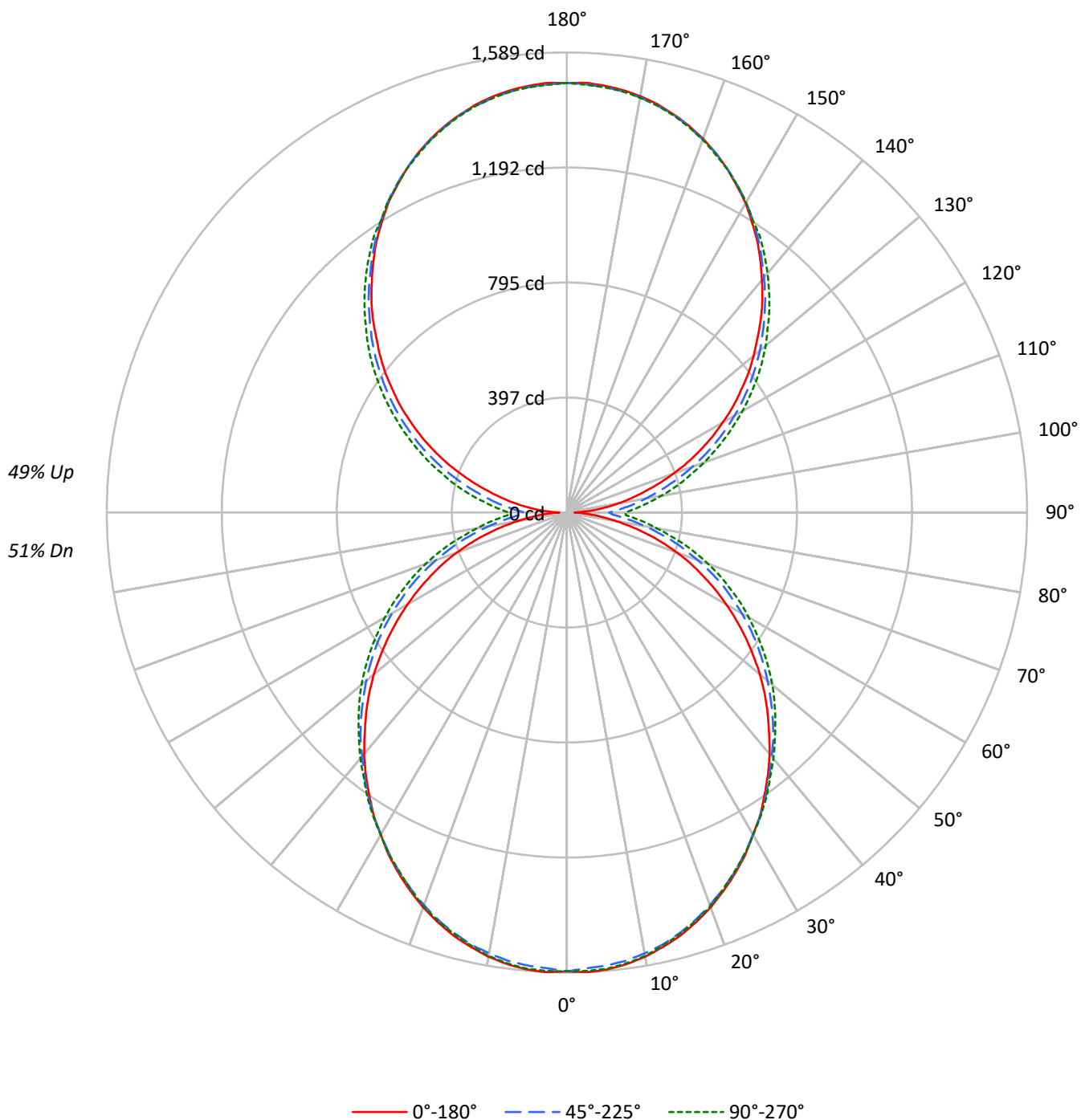
Lumens per Lamp: N/A
Luminaire Lumens: 9052.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	84	84	84	70	70	70	57	57	57
1	97	93	88	85	90	86	82	79	72	70	67	60	58	57	49	48	47
2	88	80	74	69	81	74	69	64	63	59	55	53	49	47	43	41	39
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	38	35	33
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	34	30	28
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24
6	62	50	41	35	57	46	39	33	39	33	29	33	29	25	27	24	21
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	21	19
8	53	41	33	27	49	38	31	26	32	27	23	28	23	20	23	19	17
9	49	37	29	24	46	34	28	23	30	24	20	25	21	18	21	18	15
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10153	10153	10153
5°	10170	9940	9965
10°	10093	9737	9710
15°	9970	9502	9397
20°	9805	9217	9085
25°	9608	8914	8709
30°	9370	8583	8367
35°	9148	8279	8051
40°	8922	7957	7733
45°	8666	7679	7447
50°	8421	7377	7189
55°	8127	7089	6890
60°	7804	6761	6582
65°	7466	6414	6236
70°	7080	5952	5876
75°	6473	5494	5437
80°	5675	4937	4951
85°	4883	4493	4696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8666 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.7
10°-20°	425.7	4.7
20°-30°	633.0	7.0
30°-40°	749.7	8.3
40°-50°	775.0	8.6
50°-60°	714.0	7.9
60°-70°	577.2	6.4
70°-80°	386.2	4.3
80°-90°	201.9	2.2
90°-100°	211.1	2.3
100°-110°	376.0	4.2
110°-120°	552.6	6.1
120°-130°	685.8	7.6
130°-140°	747.0	8.3
140°-150°	721.5	8.0
150°-160°	603.7	6.7
160°-170°	401.3	4.4
170°-180°	140.4	1.6
0°-30°	1208.7	13.4
0°-40°	1958.3	21.6
0°-60°	3447.3	38.1
0°-90°	4612.6	51.0
90°-120°	1139.6	12.6
90°-150°	3293.9	36.4
90°-180°	4439.0	49.0
0°-180°	9052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1585	1582	1571	1583	1582	150
15°	1513	1515	1504	1513	1507	426
25°	1375	1380	1370	1376	1369	633
35°	1190	1201	1196	1201	1201	745
45°	980	997	1005	1016	1018	756
55°	754	778	803	820	826	673
65°	519	555	592	615	621	515
75°	286	326	376	407	415	303
85°	85	137	191	225	238	89
90°	26	85	146	187	202	22
95°	95	138	202	245	258	94
105°	277	308	361	399	414	295
115°	507	522	565	592	600	502
125°	732	738	770	793	799	656
135°	948	953	965	985	988	730
145°	1146	1149	1152	1160	1163	716
155°	1309	1309	1310	1315	1309	603
165°	1424	1421	1422	1427	1420	402
175°	1480	1476	1476	1482	1474	141
180°	1484	1484	1484	1484	1484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.7	1584.7	1584.7	1584.7	1584.7
2.5°	1589.3	1586.2	1575.3	1586.2	1584.7
5°	1584.7	1581.6	1570.7	1583.1	1581.6
7.5°	1573.8	1572.2	1561.4	1572.2	1570.7
10°	1558.2	1558.2	1545.8	1556.7	1555.1
12.5°	1536.5	1538.1	1528.7	1536.5	1531.8
15°	1513.2	1514.7	1503.9	1513.2	1507.0
17.5°	1483.7	1486.8	1475.9	1483.7	1479.0
20°	1451.1	1454.2	1443.3	1447.9	1447.9
22.5°	1413.8	1420.0	1407.6	1413.8	1409.1
25°	1374.9	1379.6	1370.3	1376.5	1368.7
27.5°	1333.0	1339.2	1328.3	1333.0	1329.9
30°	1284.8	1294.1	1284.8	1287.9	1286.4
32.5°	1241.3	1249.1	1242.9	1246.0	1244.4
35°	1190.0	1200.9	1196.3	1200.9	1200.9
37.5°	1140.3	1149.7	1148.1	1154.3	1152.8
40°	1089.1	1101.5	1099.9	1106.2	1109.3
42.5°	1033.1	1050.2	1054.9	1062.7	1062.7
45°	980.3	997.4	1005.2	1016.0	1017.6
47.5°	925.9	941.5	953.9	969.4	972.5
50°	870.0	887.1	904.2	921.3	925.9
52.5°	811.0	832.7	854.5	873.1	876.2
55°	753.5	778.3	803.2	820.3	826.5
57.5°	694.5	724.0	751.9	770.6	775.2
60°	635.4	666.5	697.6	720.9	725.5
62.5°	577.9	609.0	643.2	669.6	675.8
65°	518.9	554.6	591.9	615.2	621.4
67.5°	464.5	498.7	536.0	564.0	571.7
70°	403.9	439.7	480.1	509.6	518.9
72.5°	344.9	382.2	427.2	459.9	466.1
75°	285.9	326.3	376.0	407.0	414.8
77.5°	228.4	275.0	321.6	355.8	362.0
80°	175.6	222.2	275.0	309.2	315.4
82.5°	127.4	177.1	231.5	264.1	276.5
85°	85.4	136.7	191.1	225.3	237.7
87.5°	54.4	104.1	156.9	192.6	203.5
90°	26.1	85.0	145.9	187.3	201.7
92.5°	56.4	107.2	172.0	214.3	227.4
95°	95.2	138.0	202.3	244.6	257.8
97.5°	134.1	172.5	240.0	279.5	291.6
100°	178.7	211.3	276.1	319.1	330.8
102.5°	226.8	262.2	316.0	358.7	371.4
105°	277.2	307.8	361.3	399.4	413.7
107.5°	332.2	359.8	410.6	445.1	454.4
110°	389.6	414.0	460.9	493.9	503.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	449.6	465.9	512.5	541.6	550.1
115°	506.9	522.4	565.1	592.0	600.1
117.5°	565.5	574.3	615.5	643.1	649.4
120°	620.9	631.3	668.2	694.6	699.3
122.5°	679.3	682.1	719.6	743.4	749.2
125°	732.4	737.9	770.0	792.6	799.2
127.5°	789.8	791.7	819.2	841.4	848.4
130°	841.8	845.9	870.0	890.6	896.1
132.5°	892.1	902.5	916.9	937.5	940.2
135°	947.5	953.0	964.9	985.1	988.3
137.5°	999.5	1004.9	1013.4	1033.2	1033.6
140°	1047.6	1053.4	1058.4	1077.8	1078.2
142.5°	1097.3	1100.3	1104.9	1120.1	1120.5
145°	1145.8	1148.8	1152.3	1160.1	1162.8
147.5°	1189.2	1192.7	1195.0	1201.5	1195.4
150°	1234.2	1233.1	1237.7	1237.7	1237.0
152.5°	1271.2	1273.5	1274.7	1278.1	1273.5
155°	1309.3	1309.3	1310.4	1315.1	1309.3
157.5°	1343.9	1341.6	1342.8	1347.4	1339.3
160°	1373.9	1370.5	1371.6	1376.3	1370.5
162.5°	1400.5	1398.2	1398.2	1404.0	1397.0
165°	1423.6	1421.3	1422.4	1427.1	1420.1
167.5°	1444.4	1439.8	1439.8	1446.7	1439.8
170°	1460.5	1455.9	1455.9	1462.8	1454.8
172.5°	1472.1	1467.5	1467.5	1474.4	1467.5
175°	1480.2	1475.5	1475.5	1482.5	1474.4
177.5°	1485.9	1481.3	1480.2	1487.1	1479.0
180°	1483.6	1483.6	1483.6	1483.6	1483.6

(END OF REPORT)