

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: P1027556

Luminaire Tested: S125DIP-B1270D1090UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027556
REPORT IS A COMBINATION OF REPORTS P1001564 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1090UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

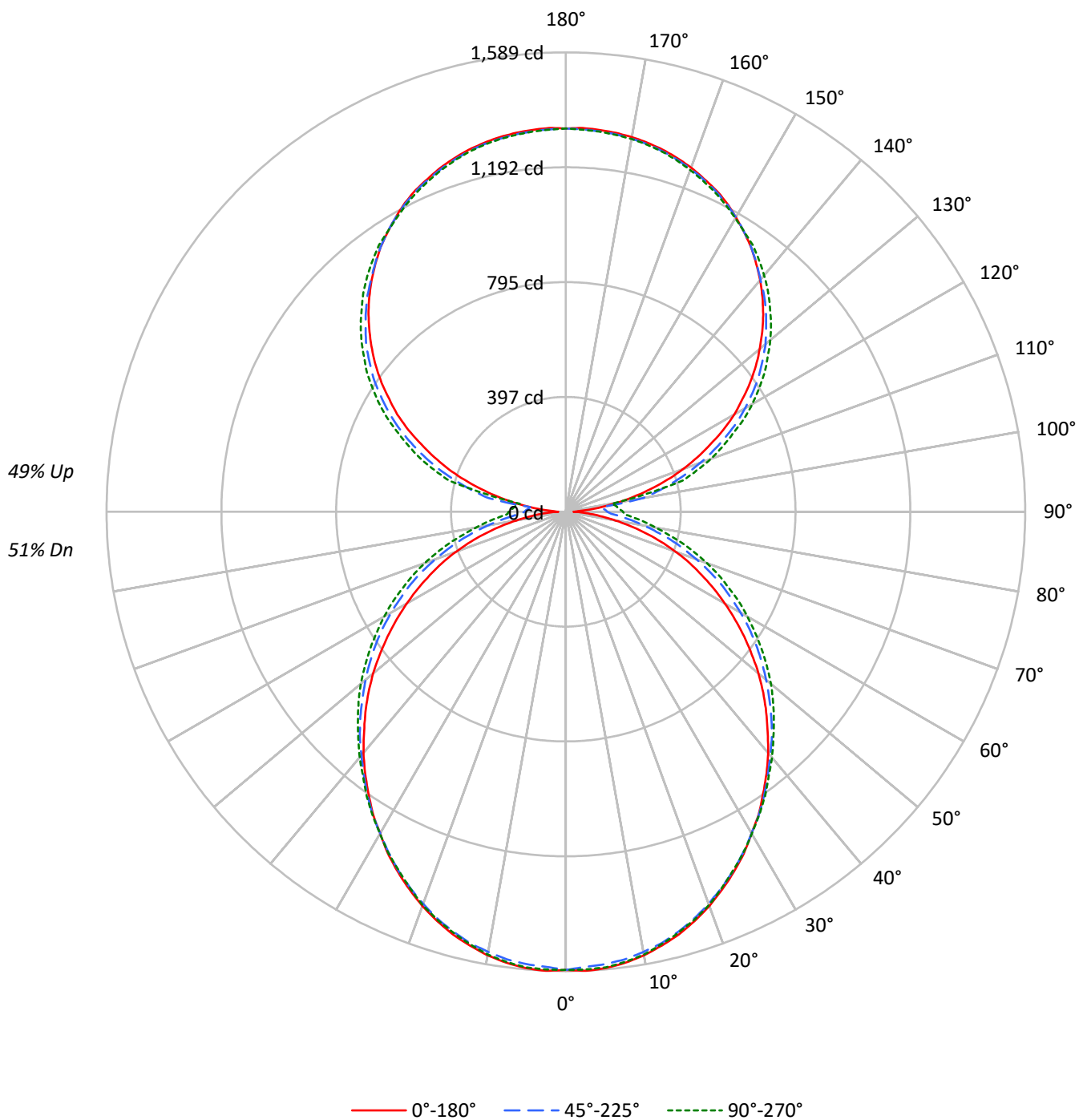
Lumens per Lamp: N/A
Luminaire Lumens: 8984.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
Input Voltage (V):
Input Current (A_{in}): 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	73	70	67	61	59	57	49	48	47
2	88	80	74	69	81	74	69	64	63	59	55	53	50	47	43	41	39
3	80	70	63	57	74	65	59	53	55	50	46	46	43	39	38	35	33
4	73	62	54	48	67	58	50	45	49	44	39	41	37	34	34	31	28
5	67	55	47	41	62	51	44	38	44	38	34	37	32	29	30	27	24
6	62	50	41	35	57	46	39	33	39	34	29	33	29	25	27	24	21
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	22	19
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	20	17
9	49	37	29	24	46	35	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°	201.6	2.2
90°-100°	157.4	1.8
100°-110°	382.1	4.3
110°-120°	594.4	6.6
120°-130°	723.1	8.0
130°-140°	757.7	8.4
140°-150°	701.0	7.8
150°-160°	564.8	6.3
160°-170°	365.3	4.1
170°-180°	126.0	1.4
0°-30°	1208.7	13.5
0°-40°	1958.3	21.8
0°-60°	3447.3	38.4
0°-90°	4612.3	51.3
90°-120°	1133.9	12.6
90°-150°	3315.7	36.9
90°-180°	4372.0	48.7
0°-180°	8984.0	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	83	143	184	198	20
95°	76	114	129	168	179	85
105°	303	332	378	409	419	321
115°	552	568	609	633	636	547
125°	778	783	814	835	840	695
135°	965	970	979	997	999	744
145°	1117	1118	1118	1126	1127	698
155°	1229	1223	1225	1228	1220	566
165°	1296	1291	1292	1297	1290	366
175°	1326	1320	1321	1329	1320	126
180°	1326	1326	1326	1326	1326	

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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°	25.9	83.4	143.1	183.7	197.6
92.5°	40.5	76.6	136.9	176.0	187.8
95°	76.2	113.7	129.1	168.2	179.1
97.5°	123.8	167.0	124.9	159.5	171.3
100°	181.2	216.8	270.4	156.7	162.0
102.5°	239.6	273.1	323.2	356.3	283.0
105°	303.0	331.7	378.3	409.4	419.3
107.5°	368.2	390.0	437.0	469.1	474.4
110°	431.6	450.2	495.7	522.2	534.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.5	509.5	552.4	576.4	585.3
115°	551.9	567.7	609.1	633.1	636.5
117.5°	614.3	622.0	664.8	685.3	694.2
120°	673.2	676.8	715.6	740.0	744.4
122.5°	723.7	730.2	765.3	788.3	791.7
125°	777.8	783.2	814.2	835.1	840.0
127.5°	828.4	831.7	857.1	878.4	879.9
130°	875.6	878.9	901.7	920.4	923.3
132.5°	921.1	927.0	939.6	961.4	962.7
135°	965.4	969.8	978.6	996.8	998.7
137.5°	1006.7	1011.1	1015.3	1033.9	1035.2
140°	1045.5	1047.4	1047.9	1067.0	1067.3
142.5°	1081.8	1081.2	1083.2	1097.2	1097.5
145°	1117.2	1117.6	1117.6	1126.4	1126.7
147.5°	1147.1	1147.1	1148.0	1152.1	1148.3
150°	1176.5	1174.6	1176.5	1178.5	1172.2
152.5°	1205.1	1200.1	1202.1	1204.1	1197.2
155°	1228.6	1222.7	1224.7	1227.7	1219.8
157.5°	1247.3	1244.4	1244.4	1247.3	1239.5
160°	1267.0	1261.1	1262.1	1266.0	1258.1
162.5°	1282.7	1276.8	1277.8	1283.7	1274.8
165°	1296.5	1290.6	1291.5	1297.4	1289.6
167.5°	1307.3	1301.4	1302.4	1309.2	1300.4
170°	1316.1	1309.2	1310.2	1318.1	1309.2
172.5°	1322.0	1315.1	1317.1	1324.0	1315.1
175°	1325.9	1320.1	1321.0	1328.9	1320.1
177.5°	1328.9	1323.0	1324.0	1330.9	1323.0
180°	1325.9	1325.9	1325.9	1325.9	1325.9

(END OF REPORT)