

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: P1026777

Luminaire Tested: S125DIP-B1270D1270UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026777
REPORT IS A COMBINATION OF REPORTS P1001596 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB2750-4F0-XX-W2A-D_4000K
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

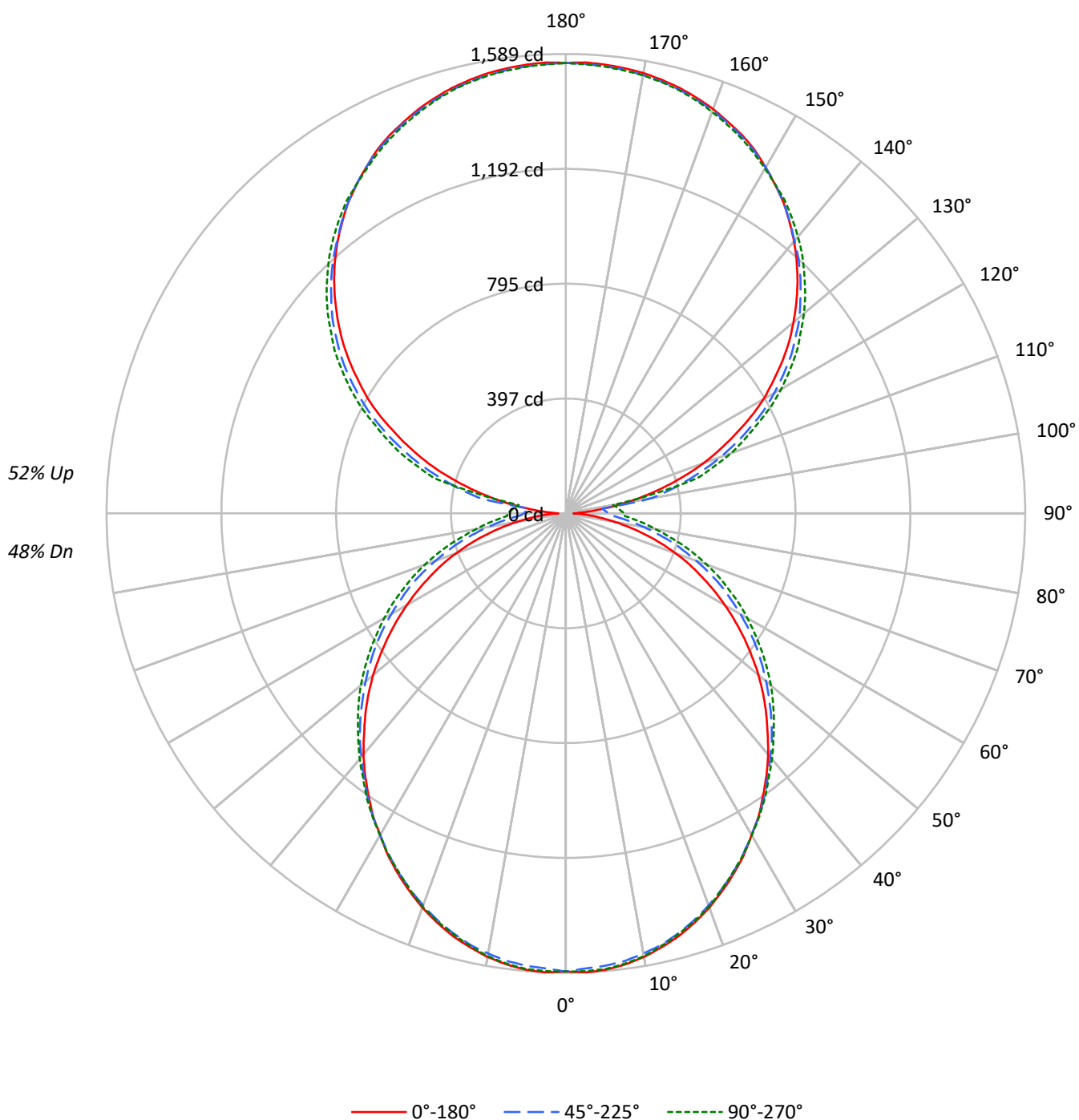
Lumens per Lamp: N/A
Luminaire Lumens: 9697.1 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48		
1	97	92	88	84	89	85	81	78	71	68	66	58	56	55	47	45	44	39		
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	41	38	37	32		
3	80	70	62	56	73	64	58	53	54	49	45	45	41	38	36	33	31	27		
4	73	62	54	47	67	57	50	44	48	42	38	40	35	32	32	29	26	23		
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	29	25	23	20		
6	61	49	41	35	56	45	38	33	38	33	28	32	28	24	26	23	20	17		
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	24	20	18	15		
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	22	18	16	13		
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	17	14	12		
10	46	34	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13	11		

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	1.5
10°-20°	425.7	4.4
20°-30°	633.0	6.5
30°-40°	749.7	7.7
40°-50°	775.0	8.0
50°-60°	714.0	7.4
60°-70°	577.2	6.0
70°-80°	386.2	4.0
80°-90°	201.9	2.1
90°-100°	165.3	1.7
100°-110°	434.5	4.5
110°-120°	688.7	7.1
120°-130°	844.2	8.7
130°-140°	887.9	9.2
140°-150°	823.1	8.5
150°-160°	663.6	6.8
160°-170°	429.2	4.4
170°-180°	148.0	1.5
0°-30°	1208.7	12.5
0°-40°	1958.3	20.2
0°-60°	3447.3	35.6
0°-90°	4612.6	47.6
90°-120°	1288.5	13.3
90°-150°	3843.7	39.6
90°-180°	5084.0	52.4
0°-180°	9697.1	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	21
95°	86	123	132	172	183	97
105°	354	383	430	461	470	375
115°	647	664	705	728	731	641
125°	913	919	950	971	975	815
135°	1134	1139	1148	1166	1166	874
145°	1312	1313	1313	1322	1321	820
155°	1444	1437	1439	1442	1433	665
165°	1523	1516	1518	1524	1515	430
175°	1558	1551	1552	1561	1551	148
180°	1558	1558	1558	1558	1558	

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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	187.4	201.7
92.5°	43.7	78.3	139.7	179.7	191.6
95°	86.0	123.0	131.9	171.9	182.8
97.5°	142.2	186.4	128.0	162.9	175.0
100°	210.0	246.0	300.4	161.0	165.7
102.5°	278.8	313.0	363.4	396.9	309.1
105°	353.5	383.0	429.6	460.7	470.4
107.5°	430.5	452.3	499.6	531.8	536.5
110°	505.2	523.8	569.6	595.6	607.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.8	594.3	637.3	660.7	669.2
115°	646.8	663.5	705.0	728.4	730.8
117.5°	720.4	728.1	771.6	791.1	799.6
120°	789.7	793.1	832.4	856.5	860.0
122.5°	849.3	856.6	891.9	914.5	916.9
125°	912.8	919.4	950.4	970.7	975.0
127.5°	972.5	976.7	1001.9	1022.9	1023.0
130°	1027.9	1032.1	1055.1	1073.3	1075.3
132.5°	1081.8	1088.7	1100.7	1122.5	1123.0
135°	1133.7	1139.2	1147.7	1165.5	1166.4
137.5°	1182.2	1187.7	1191.6	1210.2	1210.6
140°	1228.1	1230.4	1230.7	1250.2	1249.4
142.5°	1270.8	1270.4	1272.7	1286.7	1286.0
145°	1312.4	1313.1	1313.1	1322.1	1321.3
147.5°	1347.8	1347.8	1348.9	1353.2	1348.2
150°	1382.4	1380.1	1382.4	1384.7	1377.1
152.5°	1415.9	1410.1	1412.4	1414.7	1406.7
155°	1443.6	1436.7	1439.0	1442.5	1433.2
157.5°	1465.6	1462.1	1462.1	1465.6	1456.3
160°	1488.7	1481.7	1482.9	1487.5	1478.3
162.5°	1507.1	1500.2	1501.4	1508.3	1497.9
165°	1523.3	1516.4	1517.5	1524.5	1515.2
167.5°	1536.0	1529.1	1530.2	1538.3	1527.9
170°	1546.4	1538.3	1539.5	1548.7	1538.3
172.5°	1553.3	1545.2	1547.6	1555.6	1545.2
175°	1557.9	1551.0	1552.2	1561.4	1551.0
177.5°	1561.4	1554.5	1555.6	1563.7	1554.5
180°	1557.9	1557.9	1557.9	1557.9	1557.9

(END OF REPORT)