

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: P1027610

Luminaire Tested: S125DIP-B1270D1270UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027610
REPORT IS A COMBINATION OF REPORTS P1001633 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

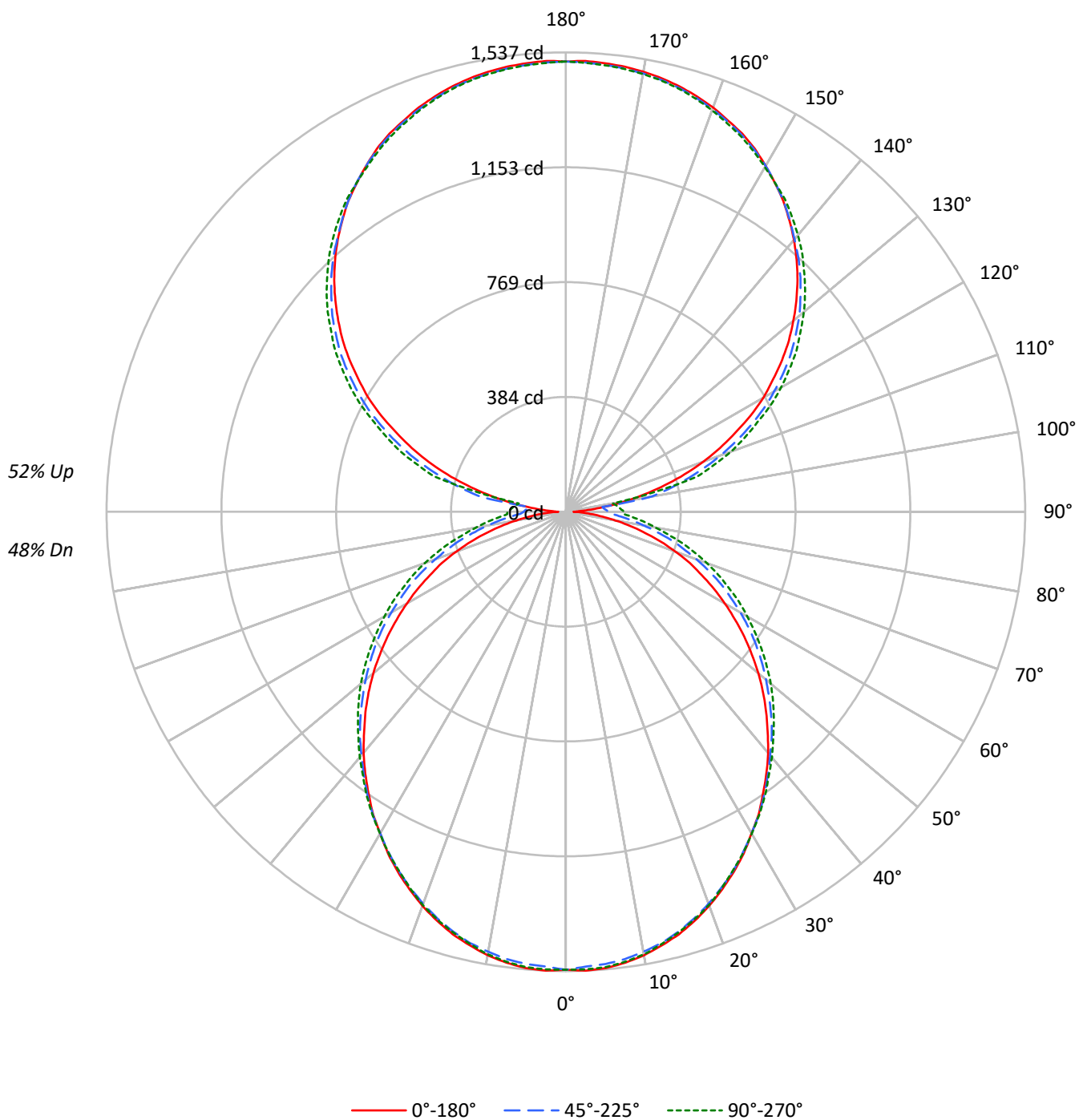
Lumens per Lamp: N/A
Luminaire Lumens: 9377.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1027610

CATALOG NUMBER: S125DIP-B1270D1270UB50-4F0-XX-W2A-D

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9818	9818	9818
5°	9834	9612	9636
10°	9760	9416	9389
15°	9642	9188	9086
20°	9481	8913	8786
25°	9291	8619	8421
30°	9061	8300	8091
35°	8846	8005	7785
40°	8627	7695	7478
45°	8380	7426	7201
50°	8143	7133	6952
55°	7858	6855	6662
60°	7546	6537	6365
65°	7220	6203	6031
70°	6847	5755	5683
75°	6258	5313	5258
80°	5487	4774	4788
85°	4723	4345	4541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8380 cd/sqm

TEST NUMBER: P1027610

CATALOG NUMBER: S125DIP-B1270D1270UB50-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.5
10°-20°	411.6	4.4
20°-30°	612.1	6.5
30°-40°	724.9	7.7
40°-50°	749.5	8.0
50°-60°	690.4	7.4
60°-70°	558.1	6.0
70°-80°	373.4	4.0
80°-90°	195.3	2.1
90°-100°	159.9	1.7
100°-110°	420.2	4.5
110°-120°	665.9	7.1
120°-130°	816.3	8.7
130°-140°	858.6	9.2
140°-150°	796.0	8.5
150°-160°	641.7	6.8
160°-170°	415.0	4.4
170°-180°	143.1	1.5
0°-30°	1168.8	12.5
0°-40°	1893.7	20.2
0°-60°	3333.6	35.6
0°-90°	4460.4	47.6
90°-120°	1246.0	13.3
90°-150°	3716.8	39.6
90°-180°	4917.0	52.4
0°-180°	9377.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1532	1529	1519	1531	1529	145
15°	1463	1465	1454	1463	1457	412
25°	1330	1334	1325	1331	1324	612
35°	1151	1161	1157	1161	1161	720
45°	948	964	972	982	984	731
55°	729	753	777	793	799	651
65°	502	536	572	595	601	498
75°	276	316	364	394	401	293
85°	83	132	185	218	230	86
90°	25	82	141	181	195	20
95°	83	119	128	166	177	93
105°	342	370	415	446	455	362
115°	626	642	682	704	707	620
125°	883	889	919	939	943	788
135°	1096	1102	1110	1127	1128	845
145°	1269	1270	1270	1278	1278	793
155°	1396	1389	1392	1395	1386	643
165°	1473	1466	1468	1474	1465	416
175°	1506	1500	1501	1510	1500	143
180°	1506	1506	1506	1506	1506	

TEST NUMBER: P1027610

CATALOG NUMBER: S125DIP-B1270D1270UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1536.9	1533.9	1523.4	1533.9	1532.4
5°	1532.4	1529.4	1518.8	1530.9	1529.4
7.5°	1521.8	1520.3	1509.8	1520.3	1518.8
10°	1506.8	1506.8	1494.8	1505.3	1503.8
12.5°	1485.8	1487.3	1478.3	1485.8	1481.3
15°	1463.3	1464.8	1454.2	1463.3	1457.2
17.5°	1434.7	1437.7	1427.2	1434.7	1430.2
20°	1403.2	1406.2	1395.7	1400.2	1400.2
22.5°	1367.1	1373.1	1361.1	1367.1	1362.6
25°	1329.6	1334.1	1325.0	1331.1	1323.5
27.5°	1289.0	1295.0	1284.5	1289.0	1286.0
30°	1242.4	1251.4	1242.4	1245.4	1243.9
32.5°	1200.4	1207.9	1201.9	1204.9	1203.4
35°	1150.8	1161.3	1156.8	1161.3	1161.3
37.5°	1102.7	1111.7	1110.2	1116.2	1114.7
40°	1053.1	1065.1	1063.6	1069.7	1072.7
42.5°	999.0	1015.6	1020.1	1027.6	1027.6
45°	948.0	964.5	972.0	982.5	984.0
47.5°	895.4	910.4	922.4	937.4	940.5
50°	841.3	857.8	874.3	890.9	895.4
52.5°	784.2	805.2	826.3	844.3	847.3
55°	728.6	752.7	776.7	793.2	799.2
57.5°	671.5	700.1	727.1	745.2	749.7
60°	614.4	644.5	674.5	697.1	701.6
62.5°	558.9	588.9	622.0	647.5	653.5
65°	501.8	536.3	572.4	594.9	600.9
67.5°	449.2	482.2	518.3	545.3	552.9
70°	390.6	425.2	464.2	492.8	501.8
72.5°	333.5	369.6	413.1	444.7	450.7
75°	276.4	315.5	363.6	393.6	401.1
77.5°	220.8	265.9	311.0	344.0	350.0
80°	169.8	214.8	265.9	299.0	305.0
82.5°	123.2	171.3	223.8	255.4	267.4
85°	82.6	132.2	184.8	217.8	229.9
87.5°	52.6	100.7	151.7	186.3	196.8
90°	25.1	82.2	141.1	181.2	195.1
92.5°	42.2	75.8	135.1	173.7	185.3
95°	83.2	118.9	127.6	166.2	176.7
97.5°	137.5	180.3	123.8	157.5	169.2
100°	203.0	238.0	290.4	155.6	160.2
102.5°	269.6	302.7	351.4	383.8	299.0
105°	341.8	370.4	415.4	445.5	454.9
107.5°	416.3	437.4	483.1	514.3	518.9
110°	488.5	506.5	550.8	576.1	587.7

TEST NUMBER: P1027610

CATALOG NUMBER: S125DIP-B1270D1270UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	557.7	574.6	616.3	638.8	647.2
115°	625.5	641.5	681.8	704.3	706.6
117.5°	696.6	704.1	746.1	764.9	773.2
120°	763.6	766.9	804.9	828.2	831.6
122.5°	821.3	828.3	862.6	884.3	886.6
125°	882.7	889.0	919.1	938.6	942.8
127.5°	940.4	944.4	968.8	989.2	989.3
130°	994.0	998.1	1020.2	1037.9	1039.8
132.5°	1046.1	1052.8	1064.4	1085.5	1085.9
135°	1096.3	1101.5	1109.8	1127.1	1128.0
137.5°	1143.2	1148.4	1152.2	1170.2	1170.6
140°	1187.5	1189.8	1190.1	1208.9	1208.2
142.5°	1228.8	1228.5	1230.7	1244.2	1243.5
145°	1269.0	1269.8	1269.8	1278.4	1277.7
147.5°	1303.3	1303.3	1304.4	1308.5	1303.7
150°	1336.8	1334.6	1336.8	1339.0	1331.6
152.5°	1369.2	1363.6	1365.8	1368.1	1360.2
155°	1396.0	1389.3	1391.5	1394.9	1385.9
157.5°	1417.2	1413.8	1413.8	1417.2	1408.3
160°	1439.5	1432.8	1433.9	1438.4	1429.5
162.5°	1457.4	1450.7	1451.8	1458.5	1448.5
165°	1473.0	1466.3	1467.5	1474.2	1465.2
167.5°	1485.3	1478.6	1479.7	1487.6	1477.5
170°	1495.4	1487.6	1488.7	1497.6	1487.6
172.5°	1502.1	1494.3	1496.5	1504.3	1494.3
175°	1506.5	1499.8	1501.0	1509.9	1499.8
177.5°	1509.9	1503.2	1504.3	1512.1	1503.2
180°	1506.5	1506.5	1506.5	1506.5	1506.5

(END OF REPORT)