

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: P1027692

Luminaire Tested: S125DIP-B1270D610UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027692
REPORT IS A COMBINATION OF REPORTS P1001745 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB40-4F0-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

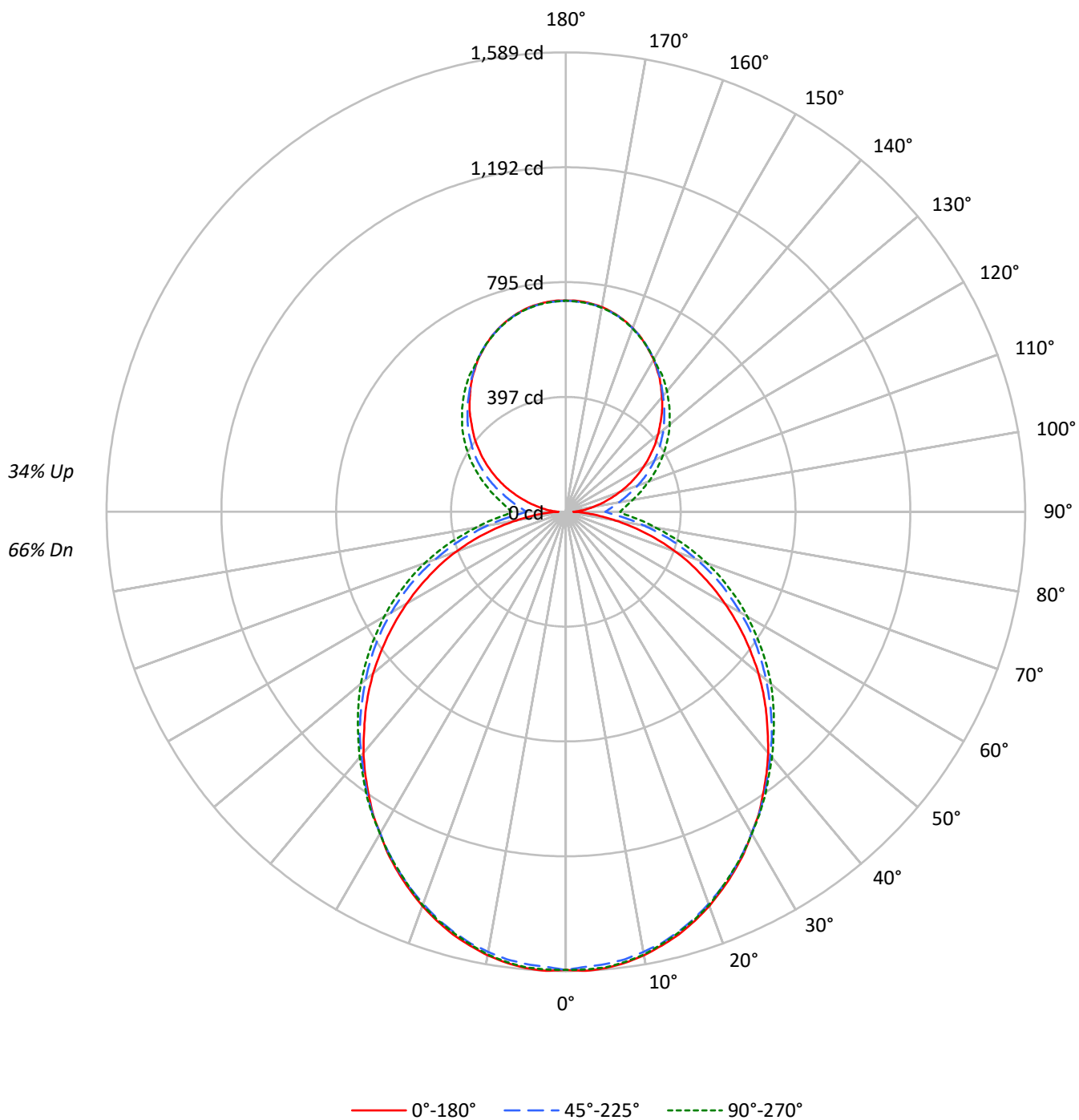
Lumens per Lamp: N/A
Luminaire Lumens: 6949.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71			66
1	100	96	91	87	94	90	86	83	80	77	74	70	68	66	61	60	58			54
2	91	83	76	71	85	78	72	67	69	65	61	61	57	54	53	51	48			44
3	83	73	65	58	78	69	61	56	61	55	51	54	49	45	47	44	41			37
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	42	38	35			32
5	70	57	48	42	65	54	46	40	48	42	37	43	38	33	38	33	30			27
6	64	51	43	37	60	49	41	35	43	37	32	39	33	29	34	30	26			24
7	59	46	38	32	56	44	36	31	39	33	28	35	30	26	31	27	23			21
8	55	42	34	28	52	40	32	27	36	30	25	32	27	23	29	24	21			19
9	51	38	31	25	48	37	29	24	33	27	23	30	24	21	26	22	19			17
10	48	35	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17			15

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	2.2
10°-20°	425.7	6.1
20°-30°	633.0	9.1
30°-40°	749.7	10.8
40°-50°	775.0	11.2
50°-60°	714.0	10.3
60°-70°	577.2	8.3
70°-80°	386.2	5.6
80°-90°	200.7	2.9
90°-100°	161.0	2.3
100°-110°	227.2	3.3
110°-120°	300.3	4.3
120°-130°	353.6	5.1
130°-140°	374.8	5.4
140°-150°	356.6	5.1
150°-160°	297.3	4.3
160°-170°	197.6	2.8
170°-180°	69.2	1.0
0°-30°	1208.7	17.4
0°-40°	1958.3	28.2
0°-60°	3447.3	49.6
0°-90°	4611.5	66.4
90°-120°	688.5	9.9
90°-150°	1773.6	25.5
90°-180°	2338.0	33.6
0°-180°	6949.0	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	80	136	175	188	20
95°	57	99	157	195	207	55
105°	144	171	221	256	268	153
115°	254	268	309	336	345	252
125°	364	366	397	421	428	326
135°	468	470	481	502	507	361
145°	565	566	567	575	580	353
155°	645	645	645	648	645	297
165°	701	700	700	703	699	198
175°	729	727	727	730	726	69
180°	730	730	730	730	730	

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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°	25.5	79.7	136.5	175.0	187.6
92.5°	38.9	86.7	146.2	184.4	196.3
95°	57.2	98.7	157.2	195.4	207.4
97.5°	75.5	113.3	172.6	208.6	220.1
100°	96.7	129.3	186.4	224.2	234.6
102.5°	119.5	152.0	202.9	239.7	250.7
105°	143.6	171.3	221.3	255.8	268.4
107.5°	169.9	194.5	242.4	275.2	284.5
110°	197.4	218.8	264.0	295.2	305.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	226.9	242.1	286.2	314.8	324.5
115°	254.3	267.5	309.0	336.5	345.2
117.5°	282.4	290.7	330.7	357.7	366.3
120°	309.7	317.1	353.5	379.9	386.9
122.5°	337.6	339.8	375.6	399.9	407.5
125°	363.8	365.7	397.3	421.0	428.3
127.5°	391.3	391.4	418.4	441.1	449.3
130°	416.9	418.1	441.0	462.2	468.8
132.5°	440.9	446.0	460.9	482.1	486.6
135°	468.1	470.1	481.4	501.6	507.1
137.5°	493.7	495.6	503.0	522.1	525.5
140°	516.7	519.5	522.7	541.0	544.3
142.5°	541.1	541.8	544.1	558.6	562.0
145°	565.0	565.7	567.4	575.2	579.7
147.5°	585.6	587.3	588.4	593.2	591.8
150°	607.7	607.2	609.4	609.4	609.9
152.5°	625.9	627.1	627.6	629.3	627.1
155°	644.7	644.7	645.3	647.5	644.7
157.5°	661.7	660.6	661.2	663.5	659.5
160°	676.5	674.8	675.4	677.7	674.8
162.5°	689.6	688.5	688.5	691.3	687.9
165°	701.0	699.8	700.4	702.7	699.3
167.5°	711.2	708.9	708.9	712.3	708.9
170°	719.2	716.9	716.9	720.3	716.3
172.5°	724.8	722.6	722.6	726.0	722.6
175°	728.8	726.6	726.6	730.0	726.0
177.5°	731.7	729.4	728.8	732.2	728.3
180°	730.5	730.5	730.5	730.5	730.5

(END OF REPORT)