

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: P1026807

Luminaire Tested: S125DIP-B1270D610UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026807
REPORT IS A COMBINATION OF REPORTS P1001716 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB2750-4F0-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

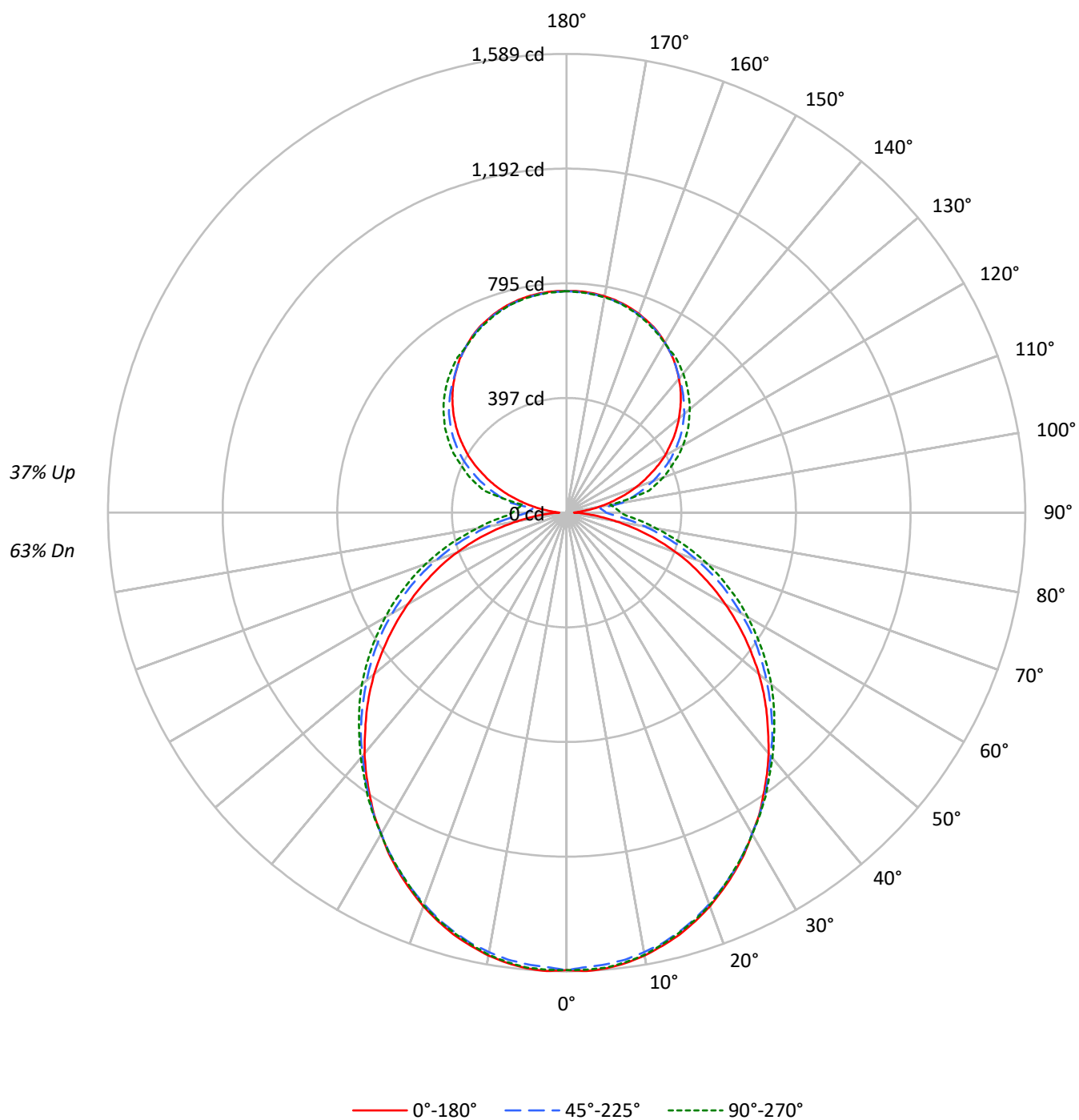
Lumens per Lamp: N/A
Luminaire Lumens: 7266.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RCR																	
0	110	110	110	110	104	104	104	104	91	91	91	79	79	79	68	68	68
1	100	95	91	87	93	89	85	82	78	75	73	68	66	64	59	57	56
2	91	82	76	70	85	77	72	67	68	64	60	59	56	53	51	49	46
3	82	72	64	58	77	68	61	55	60	54	50	52	48	44	45	42	39
4	75	64	55	49	70	60	52	47	53	47	42	46	42	38	40	37	33
5	69	57	48	42	64	54	46	40	47	41	36	42	37	33	36	32	29
6	64	51	42	36	59	48	40	35	43	36	32	38	32	28	33	29	25
7	59	46	38	32	55	43	36	30	39	32	28	34	29	25	30	26	23
8	55	42	34	28	51	40	32	27	35	29	25	31	26	22	27	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18
10	48	35	28	23	45	33	26	22	30	24	20	27	22	18	24	19	17

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	2.1
10°-20°	425.7	5.9
20°-30°	633.0	8.7
30°-40°	749.7	10.3
40°-50°	775.0	10.7
50°-60°	714.0	9.8
60°-70°	577.2	7.9
70°-80°	386.2	5.3
80°-90°	200.7	2.8
90°-100°	138.5	1.9
100°-110°	255.9	3.5
110°-120°	367.2	5.1
120°-130°	431.5	5.9
130°-140°	444.1	6.1
140°-150°	406.6	5.6
150°-160°	326.7	4.5
160°-170°	211.3	2.9
170°-180°	72.9	1.0
0°-30°	1208.7	16.6
0°-40°	1958.3	27.0
0°-60°	3447.3	47.4
0°-90°	4611.5	63.5
90°-120°	761.6	10.5
90°-150°	2043.7	28.1
90°-180°	2655.0	36.5
0°-180°	7266.0	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	19
95°	53	91	122	160	170	56
105°	181	208	255	286	296	192
115°	323	337	378	404	409	320
125°	452	455	486	509	515	404
135°	560	562	571	590	595	432
145°	647	646	646	655	658	404
155°	711	707	708	710	706	327
165°	750	746	747	750	746	212
175°	767	764	764	769	764	73
180°	767	767	767	767	767	

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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°	32.6	72.5	130.3	167.3	178.7
95°	52.6	91.3	122.5	159.5	170.4
97.5°	79.4	120.1	117.4	151.2	162.6
100°	112.0	146.3	198.3	146.3	153.3
102.5°	145.1	177.0	226.2	258.5	220.0
105°	181.1	208.2	254.8	285.9	296.3
107.5°	218.2	240.0	286.1	317.8	324.8
110°	254.2	272.8	317.5	345.3	356.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	289.5	305.2	347.6	373.4	383.0
115°	323.1	336.9	377.8	403.6	409.4
117.5°	358.6	366.3	407.5	430.4	440.2
120°	392.7	396.7	434.2	459.5	465.9
122.5°	421.2	425.7	460.3	484.1	490.0
125°	452.5	455.0	486.0	508.6	514.7
127.5°	481.1	482.4	508.2	530.4	535.1
130°	508.4	509.7	532.0	552.0	557.0
132.5°	534.1	537.5	551.3	573.1	576.5
135°	559.7	561.6	571.3	590.3	594.7
137.5°	583.6	585.5	590.5	609.1	612.5
140°	605.4	606.5	607.4	625.7	628.5
142.5°	626.4	625.4	626.5	640.5	643.3
145°	646.9	646.4	646.4	654.8	657.6
147.5°	663.5	663.5	664.0	667.7	666.8
150°	680.5	679.4	680.5	681.7	678.7
152.5°	697.0	694.2	695.3	696.4	692.5
155°	710.7	707.2	708.4	710.1	705.5
157.5°	721.5	719.7	719.7	721.5	716.9
160°	732.8	729.4	730.0	732.3	727.7
162.5°	741.9	738.5	739.1	742.5	737.4
165°	749.9	746.5	747.0	750.4	745.9
167.5°	756.1	752.7	753.3	757.3	752.2
170°	761.2	757.3	757.8	762.4	757.3
172.5°	764.7	760.7	761.8	765.8	760.7
175°	766.9	763.5	764.1	768.6	763.5
177.5°	768.6	765.2	765.8	769.8	765.2
180°	766.9	766.9	766.9	766.9	766.9

(END OF REPORT)