

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: P1027674

Luminaire Tested: S125DIP-B1270D610UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027674
REPORT IS A COMBINATION OF REPORTS P1001727 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

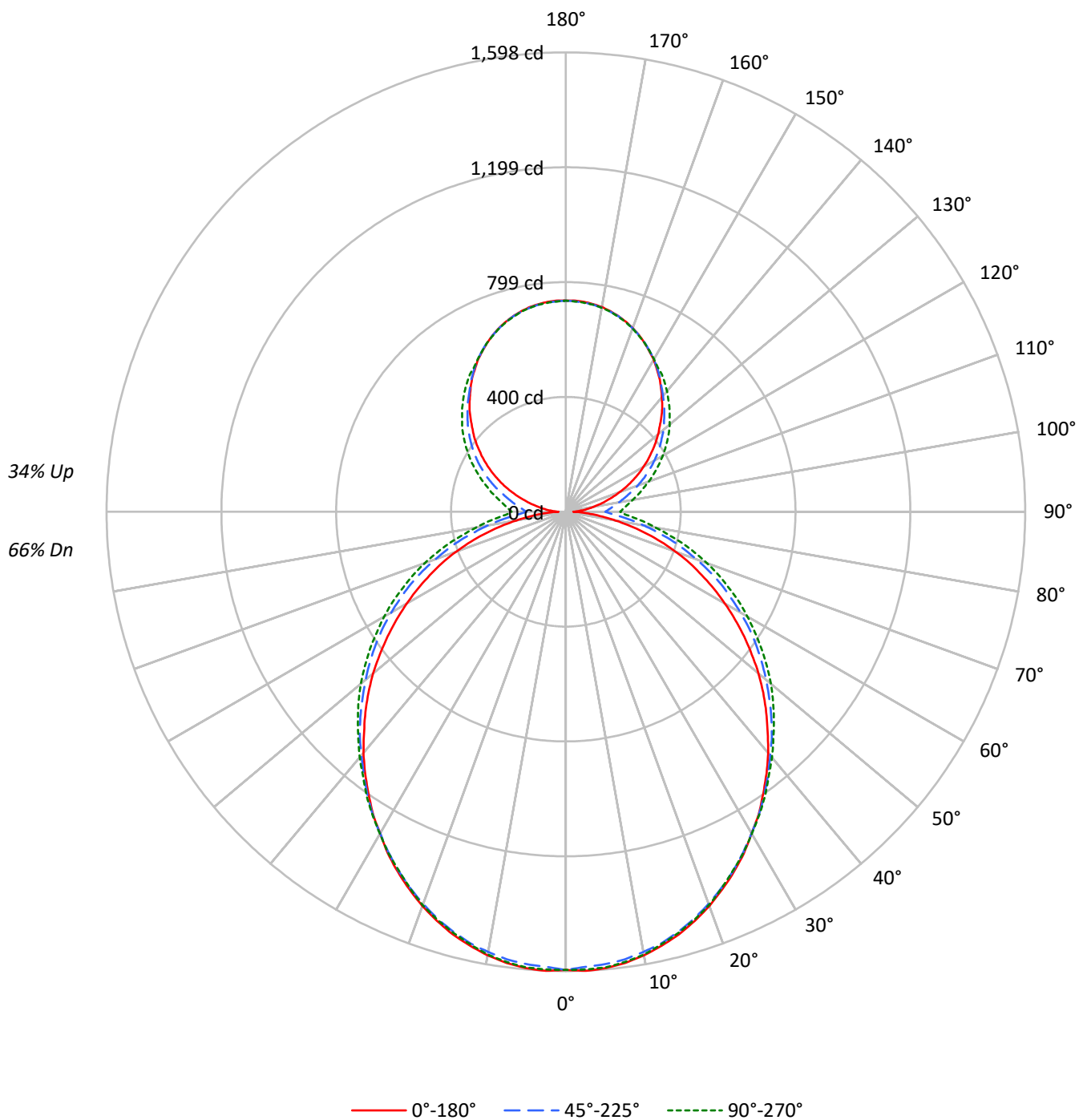
Lumens per Lamp: N/A
Luminaire Lumens: 6988.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10211	10211	10211
5°	10228	9997	10021
10°	10151	9793	9765
15°	10027	9556	9450
20°	9860	9269	9137
25°	9663	8965	8759
30°	9423	8632	8414
35°	9200	8326	8097
40°	8973	8003	7777
45°	8715	7723	7490
50°	8469	7419	7230
55°	8173	7129	6929
60°	7848	6799	6620
65°	7510	6451	6273
70°	7120	5985	5910
75°	6510	5524	5469
80°	5707	4966	4980
85°	4911	4519	4723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	2.2
10°-20°	428.1	6.1
20°-30°	636.6	9.1
30°-40°	754.0	10.8
40°-50°	779.5	11.2
50°-60°	718.0	10.3
60°-70°	580.5	8.3
70°-80°	388.4	5.6
80°-90°	201.9	2.9
90°-100°	161.9	2.3
100°-110°	228.4	3.3
110°-120°	301.9	4.3
120°-130°	355.5	5.1
130°-140°	376.8	5.4
140°-150°	358.5	5.1
150°-160°	298.9	4.3
160°-170°	198.7	2.8
170°-180°	69.5	1.0
0°-30°	1215.5	17.4
0°-40°	1969.5	28.2
0°-60°	3467.0	49.6
0°-90°	4637.7	66.4
90°-120°	692.2	9.9
90°-150°	1783.1	25.5
90°-180°	2350.0	33.6
0°-180°	6988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1594	1591	1580	1592	1591	151
15°	1522	1523	1512	1522	1516	429
25°	1383	1388	1378	1384	1376	637
35°	1197	1208	1203	1208	1208	749
45°	986	1003	1011	1022	1023	761
55°	758	783	808	825	831	677
65°	522	558	595	619	625	518
75°	288	328	378	409	417	305
85°	86	138	192	227	239	90
90°	26	80	137	176	189	20
95°	58	99	158	196	209	55
105°	144	172	222	257	270	154
115°	256	269	311	338	347	253
125°	366	368	399	423	430	327
135°	471	473	484	504	510	363
145°	568	569	570	578	583	355
155°	648	648	649	651	648	299
165°	705	704	704	706	703	199
175°	733	730	730	734	730	70
180°	734	734	734	734	734	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1598.4	1595.3	1584.3	1595.3	1593.7
5°	1593.7	1590.6	1579.6	1592.1	1590.6
7.5°	1582.8	1581.2	1570.3	1581.2	1579.6
10°	1567.1	1567.1	1554.6	1565.6	1564.0
12.5°	1545.3	1546.8	1537.5	1545.3	1540.6
15°	1521.8	1523.4	1512.5	1521.8	1515.6
17.5°	1492.1	1495.3	1484.3	1492.1	1487.5
20°	1459.3	1462.5	1451.5	1456.2	1456.2
22.5°	1421.8	1428.1	1415.6	1421.8	1417.1
25°	1382.8	1387.5	1378.1	1384.3	1376.5
27.5°	1340.6	1346.8	1335.9	1340.6	1337.5
30°	1292.1	1301.5	1292.1	1295.3	1293.7
32.5°	1248.4	1256.2	1250.0	1253.1	1251.5
35°	1196.8	1207.8	1203.1	1207.8	1207.8
37.5°	1146.8	1156.2	1154.7	1160.9	1159.3
40°	1095.3	1107.8	1106.2	1112.5	1115.6
42.5°	1039.0	1056.2	1060.9	1068.7	1068.7
45°	985.9	1003.1	1010.9	1021.8	1023.4
47.5°	931.2	946.8	959.3	975.0	978.1
50°	875.0	892.2	909.3	926.5	931.2
52.5°	815.6	837.5	859.3	878.1	881.2
55°	757.8	782.8	807.8	825.0	831.2
57.5°	698.4	728.1	756.2	775.0	779.7
60°	639.0	670.3	701.5	725.0	729.7
62.5°	581.2	612.5	646.9	673.4	679.7
65°	521.9	557.8	595.3	618.7	625.0
67.5°	467.2	501.5	539.0	567.2	575.0
70°	406.2	442.2	482.8	512.5	521.9
72.5°	346.9	384.4	429.7	462.5	468.7
75°	287.5	328.1	378.1	409.4	417.2
77.5°	229.7	276.6	323.4	357.8	364.1
80°	176.6	223.4	276.6	310.9	317.2
82.5°	128.1	178.1	232.8	265.6	278.1
85°	85.9	137.5	192.2	226.6	239.1
87.5°	54.7	104.7	157.8	193.7	204.7
90°	25.6	80.1	137.2	176.1	188.7
92.5°	39.0	87.2	147.0	185.4	197.5
95°	57.5	99.2	158.1	196.4	208.6
97.5°	75.9	113.9	173.5	209.8	221.3
100°	97.2	130.0	187.5	225.4	235.9
102.5°	120.2	152.8	204.0	241.0	252.1
105°	144.4	172.3	222.5	257.2	269.9
107.5°	170.8	195.6	243.7	276.7	286.1
110°	198.4	220.0	265.4	296.9	307.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.1	243.3	287.8	316.5	326.3
115°	255.7	268.9	310.7	338.3	347.0
117.5°	283.9	292.2	332.5	359.6	368.3
120°	311.3	318.9	355.3	381.9	389.0
122.5°	339.4	341.6	377.7	402.1	409.8
125°	365.7	367.7	399.4	423.3	430.5
127.5°	393.4	393.5	420.7	443.5	451.7
130°	419.1	420.3	443.4	464.7	471.4
132.5°	443.2	448.4	463.4	484.7	489.3
135°	470.6	472.6	484.0	504.3	509.9
137.5°	496.4	498.3	505.6	525.0	528.4
140°	519.4	522.3	525.5	543.9	547.3
142.5°	544.0	544.7	547.0	561.7	565.0
145°	568.0	568.7	570.4	578.2	582.8
147.5°	588.7	590.4	591.6	596.4	594.9
150°	611.0	610.4	612.7	612.7	613.2
152.5°	629.3	630.4	631.0	632.7	630.4
155°	648.2	648.2	648.7	651.0	648.2
157.5°	665.3	664.2	664.7	667.0	663.0
160°	680.2	678.5	679.0	681.3	678.5
162.5°	693.3	692.2	692.2	695.0	691.6
165°	704.8	703.6	704.2	706.5	703.0
167.5°	715.0	712.8	712.8	716.2	712.8
170°	723.0	720.8	720.8	724.2	720.2
172.5°	728.8	726.5	726.5	729.9	726.5
175°	732.8	730.5	730.5	733.9	729.9
177.5°	735.6	733.3	732.8	736.2	732.2
180°	734.5	734.5	734.5	734.5	734.5

(END OF REPORT)