

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: P1027675

Luminaire Tested: S125DIP-B1270D610UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027675
REPORT IS A COMBINATION OF REPORTS P1001728 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-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

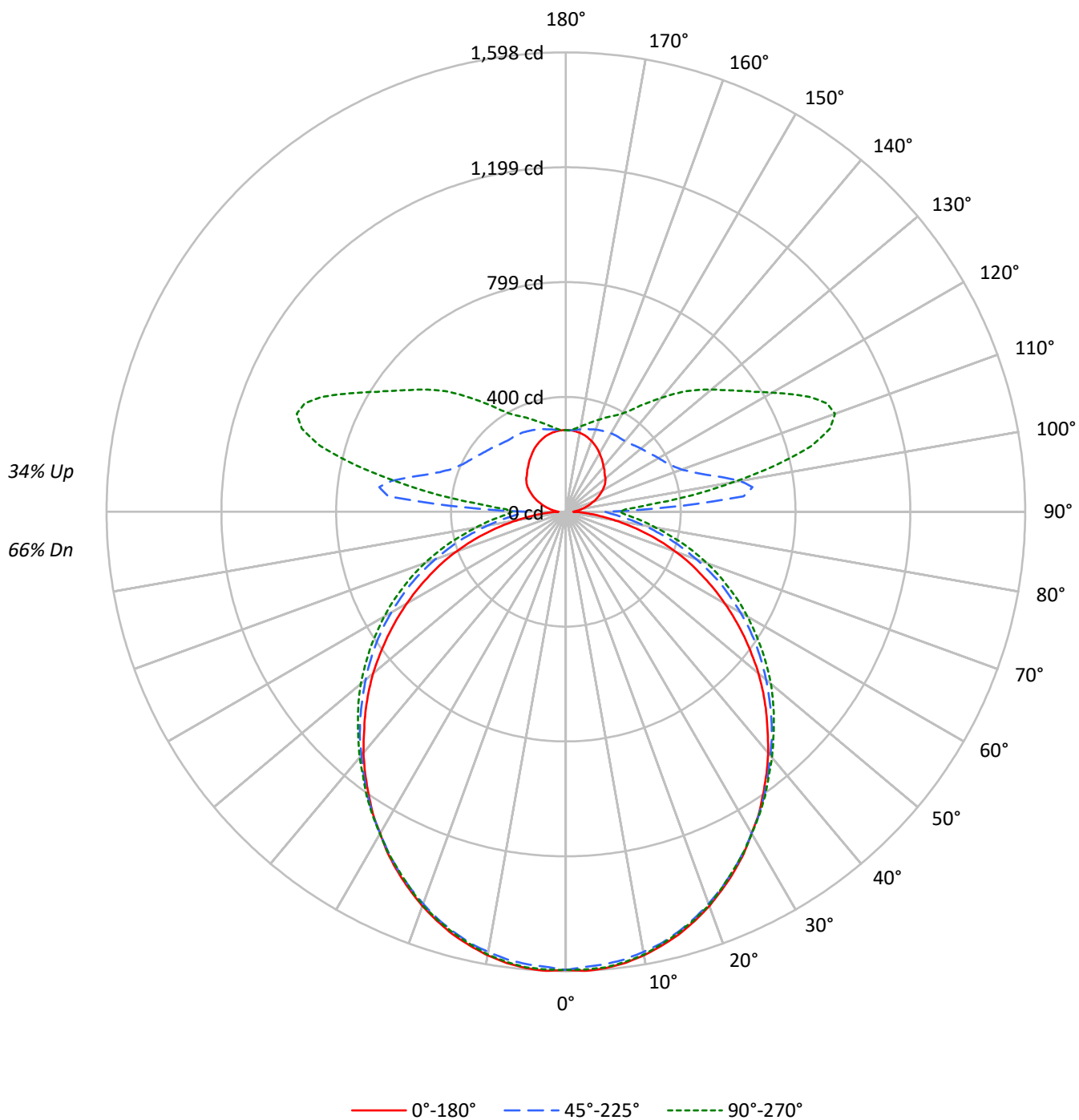
Lumens per Lamp: N/A
Luminaire Lumens: 7072.4 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	104	104	104	104	92	92	92	81	81	81	70	70	70
1	100	95	91	87	94	90	86	83	79	76	74	70	67	65	61	59	58
2	91	83	76	70	85	78	72	67	69	64	60	61	57	54	53	50	48
3	83	73	65	58	77	68	61	56	61	55	50	53	49	45	47	43	40
4	76	64	56	49	71	60	53	47	54	48	43	47	42	38	41	38	34
5	69	57	48	42	65	54	46	40	48	42	37	42	37	33	37	33	30
6	64	51	43	36	60	48	41	35	43	37	32	38	33	29	34	30	26
7	59	46	38	32	55	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	28	24	21
9	51	38	31	25	48	36	29	24	33	27	22	29	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	2.1
10°-20°	428.1	6.1
20°-30°	636.6	9.0
30°-40°	754.0	10.7
40°-50°	779.5	11.0
50°-60°	718.0	10.2
60°-70°	580.5	8.2
70°-80°	388.4	5.5
80°-90°	201.9	2.9
90°-100°	326.6	4.6
100°-110°	526.9	7.5
110°-120°	470.1	6.6
120°-130°	366.8	5.2
130°-140°	283.2	4.0
140°-150°	206.1	2.9
150°-160°	143.2	2.0
160°-170°	84.4	1.2
170°-180°	27.4	0.4
0°-30°	1215.5	17.2
0°-40°	1969.5	27.8
0°-60°	3467.0	49.0
0°-90°	4637.7	65.6
90°-120°	1323.6	18.7
90°-150°	2179.7	30.8
90°-180°	2435.0	34.4
0°-180°	7072.4	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	188	19
95°	39	117	621	378	294	36
105°	79	129	500	933	886	83
115°	125	160	394	806	942	123
125°	166	192	355	631	734	147
135°	191	227	329	511	593	148
145°	220	250	318	404	450	138
155°	249	268	310	350	365	115
165°	272	280	297	315	320	77
175°	283	283	285	289	288	27
180°	284	284	284	284	284	

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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	80.2	137.2	176.1	188.1
92.5°	30.5	114.1	350.0	217.1	209.5
95°	39.2	116.6	620.6	378.2	293.8
97.5°	47.9	116.5	654.9	555.7	446.0
100°	57.2	119.2	616.3	719.3	588.1
102.5°	67.6	124.5	555.6	856.8	749.6
105°	78.7	129.4	500.4	933.4	885.6
107.5°	89.1	136.5	458.7	950.7	963.6
110°	100.7	144.0	429.0	920.4	996.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	113.8	151.6	409.1	865.4	983.8
115°	124.9	159.6	393.6	806.4	942.2
117.5°	134.7	167.6	382.3	750.4	885.2
120°	146.2	176.8	372.6	703.8	828.2
122.5°	156.6	184.2	363.5	663.8	776.9
125°	166.3	192.2	354.9	631.4	733.6
127.5°	172.8	201.5	347.6	601.4	694.8
130°	180.2	211.7	341.7	572.6	661.3
132.5°	184.3	221.0	335.4	542.0	627.8
135°	190.6	227.2	329.2	511.0	592.9
137.5°	198.6	234.3	325.1	480.5	555.3
140°	204.0	240.3	321.0	451.9	517.7
142.5°	212.0	244.4	318.4	426.6	482.2
145°	220.0	250.1	317.9	403.7	449.7
147.5°	227.0	255.3	316.7	384.7	418.4
150°	234.4	259.8	315.0	369.9	394.9
152.5°	242.4	264.4	312.7	359.9	378.5
155°	249.3	268.1	309.9	350.2	365.3
157.5°	255.6	271.8	307.0	341.0	353.3
160°	261.8	274.7	304.1	331.9	341.3
162.5°	267.0	277.6	300.7	323.6	330.4
165°	272.1	279.6	297.3	315.3	320.2
167.5°	275.6	280.8	293.9	307.5	310.4
170°	279.0	282.2	291.0	300.2	301.9
172.5°	281.3	282.7	287.6	294.2	293.9
175°	283.0	283.0	285.3	288.7	287.6
177.5°	284.1	283.0	283.6	285.3	283.6
180°	283.6	283.6	283.6	283.6	283.6

(END OF REPORT)