

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: P1035212

Luminaire Tested: S125DIW-B1270D770UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035212
REPORT IS A COMBINATION OF REPORTS P1003347 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D770UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

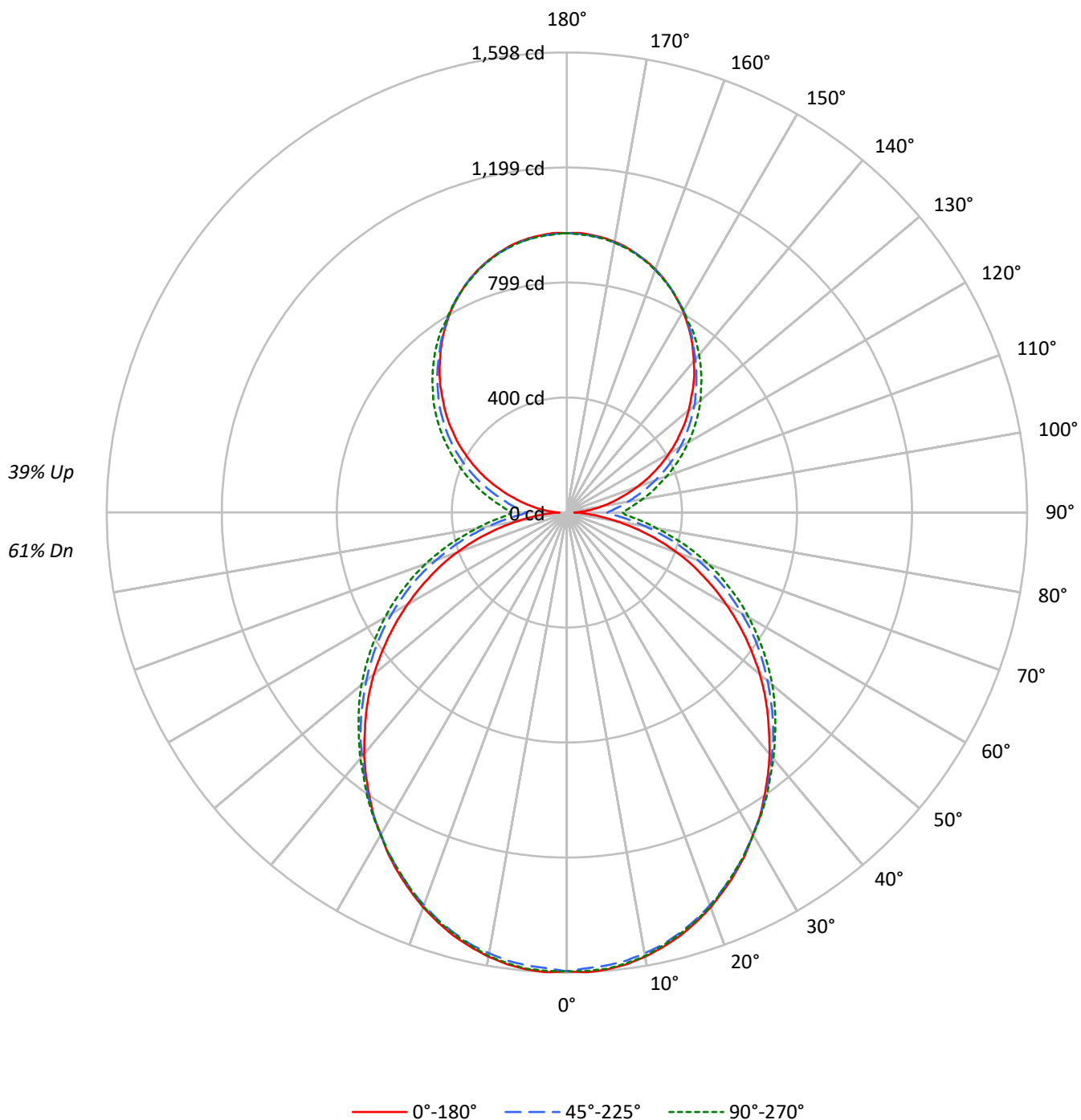
Lumens per Lamp: N/A
Luminaire Lumens: 7647.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 84.5
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	103	103	103	103	89	89	89	77	77	77	66	66	66
1	99	94	90	86	93	88	85	81	77	74	72	67	64	62	57	55	54
2	90	82	75	70	84	77	71	66	67	62	59	58	54	51	50	47	45
3	82	72	64	58	76	67	60	55	59	53	49	51	47	43	44	40	38
4	75	63	55	49	70	60	52	46	52	46	41	45	41	37	39	35	32
5	69	56	48	42	64	53	45	40	47	40	36	41	36	32	35	31	28
6	63	51	42	36	59	48	40	34	42	36	31	37	32	28	32	28	25
7	59	46	37	32	54	43	36	30	38	32	27	33	28	24	29	25	22
8	54	42	33	28	51	39	32	27	35	29	24	30	25	22	26	22	19
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	24	20	18
10	47	35	27	22	44	33	26	21	29	24	20	26	21	18	23	19	16

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	2.0
10°-20°	428.1	5.6
20°-30°	636.6	8.3
30°-40°	754.0	9.9
40°-50°	779.5	10.2
50°-60°	718.0	9.4
60°-70°	580.5	7.6
70°-80°	388.4	5.1
80°-90°	202.3	2.6
90°-100°	177.6	2.3
100°-110°	275.1	3.6
110°-120°	380.9	5.0
120°-130°	459.6	6.0
130°-140°	493.5	6.5
140°-150°	472.9	6.2
150°-160°	394.9	5.2
160°-170°	262.5	3.4
170°-180°	91.9	1.2
0°-30°	1215.5	15.9
0°-40°	1969.5	25.8
0°-60°	3467.0	45.3
0°-90°	4638.1	60.7
90°-120°	833.6	10.9
90°-150°	2259.6	29.5
90°-180°	3009.0	39.3
0°-180°	7647.0	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	82	140	180	193	21
95°	69	112	172	212	224	67
105°	186	215	266	302	315	199
115°	335	349	391	418	427	331
125°	481	484	516	540	547	431
135°	621	624	636	656	661	479
145°	750	751	754	762	766	469
155°	856	856	857	860	856	394
165°	931	930	930	934	929	263
175°	968	965	965	970	964	92
180°	970	970	970	970	970	

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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°	25.8	81.8	140.2	180.0	193.1
92.5°	44.6	93.6	155.1	194.7	207.2
95°	69.4	111.5	172.3	211.8	224.3
97.5°	94.2	132.5	194.7	232.0	243.7
100°	122.9	155.7	215.5	255.1	266.1
102.5°	153.8	187.3	239.5	278.3	290.0
105°	186.3	215.1	266.4	302.2	315.4
107.5°	221.7	247.4	296.4	329.9	339.3
110°	258.6	281.2	327.2	359.1	369.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	297.9	313.5	358.7	387.6	397.0
115°	334.9	348.8	390.9	418.4	426.9
117.5°	372.6	381.1	421.7	449.0	457.0
120°	408.8	417.3	454.0	480.6	486.9
122.5°	446.5	448.9	485.5	509.8	516.9
125°	481.2	484.3	516.2	539.7	546.8
127.5°	518.3	518.9	546.3	568.9	576.8
130°	552.2	554.4	577.8	599.0	605.3
132.5°	584.6	591.4	606.3	627.4	631.4
135°	620.9	623.9	635.6	655.9	660.6
137.5°	654.9	657.9	665.6	685.2	687.6
140°	685.8	689.6	693.4	712.1	714.6
142.5°	718.3	719.7	722.8	737.6	740.0
145°	750.0	751.4	753.7	761.5	765.5
147.5°	777.9	780.1	781.7	787.0	784.1
150°	807.3	806.6	809.6	809.6	809.7
152.5°	831.5	833.0	833.8	836.0	833.0
155°	856.4	856.4	857.2	860.2	856.4
157.5°	879.1	877.6	878.3	881.3	876.1
160°	898.7	896.5	897.2	900.2	896.5
162.5°	916.1	914.6	914.6	918.4	913.8
165°	931.2	929.7	930.4	933.5	928.9
167.5°	944.8	941.8	941.8	946.3	941.8
170°	955.4	952.3	952.3	956.9	951.6
172.5°	962.9	959.9	959.9	964.4	959.9
175°	968.2	965.2	965.2	969.7	964.4
177.5°	972.0	969.0	968.2	972.7	967.4
180°	970.5	970.5	970.5	970.5	970.5

(END OF REPORT)