

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: P1034441

Luminaire Tested: S125DIW-B1270D470UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034441
REPORT IS A COMBINATION OF REPORTS P1003266 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D470UB2750-4F0-XX-W2A-D_3000K
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

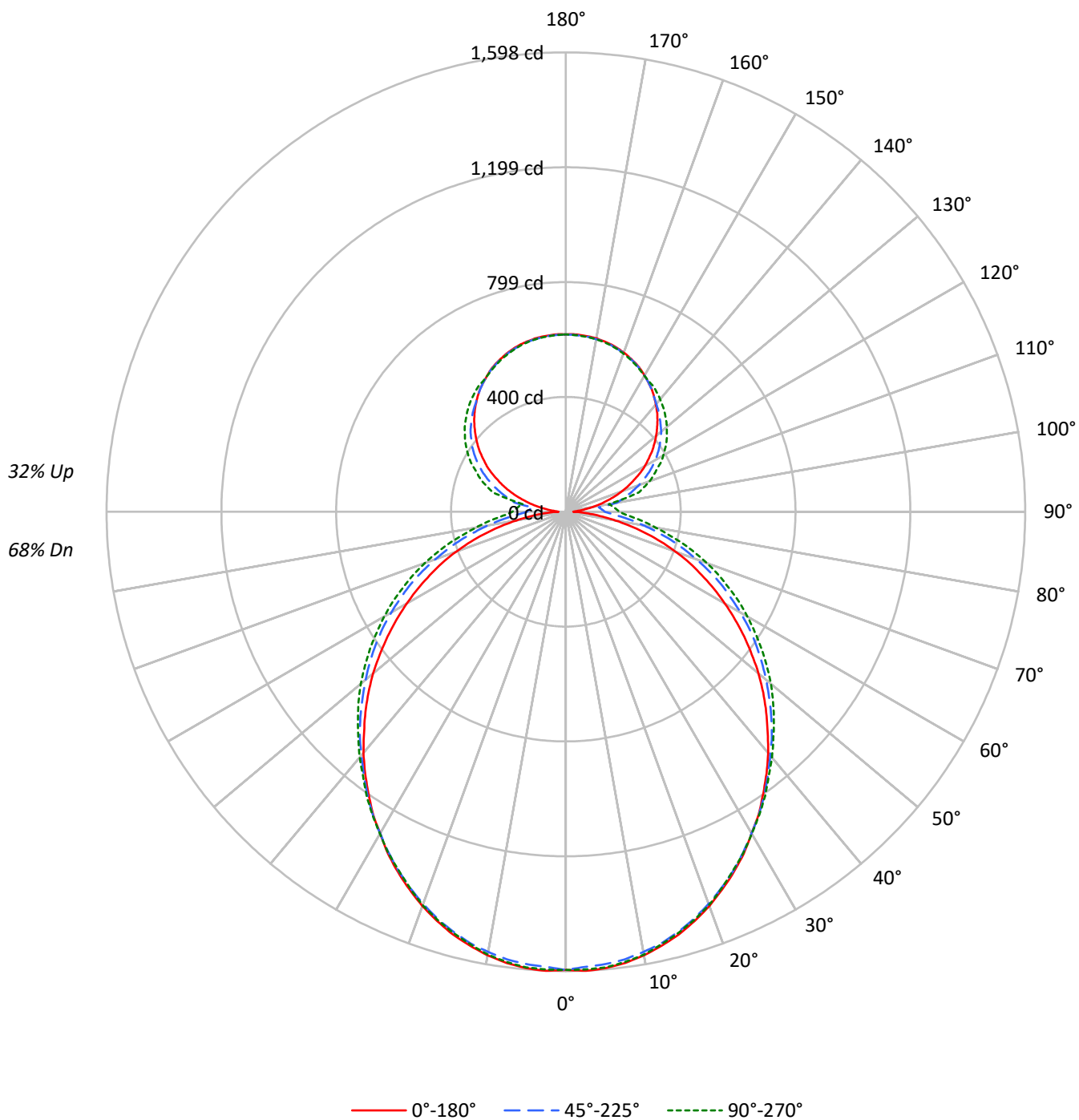
Lumens per Lamp: N/A
Luminaire Lumens: 6833.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93		82	82	82		73	73	73	68
1	101	96	92	88	95	91	87	83	80	77	75		71	69	67		63	61	59	55
2	91	83	76	71	86	79	73	67	70	65	61		62	58	55		54	52	49	45
3	83	73	65	59	78	69	62	56	61	56	51		54	50	46		48	44	41	38
4	76	64	56	49	71	61	53	47	54	48	43		48	43	39		43	39	35	32
5	70	57	49	42	65	54	46	41	49	42	37		43	38	34		38	34	31	28
6	64	51	43	37	60	49	41	35	44	37	32		39	34	30		35	30	27	24
7	59	46	38	32	56	44	36	31	40	33	29		36	30	26		32	27	24	22
8	55	42	34	28	52	40	33	27	36	30	25		33	27	23		29	25	21	19
9	51	39	31	25	48	37	30	25	33	27	23		30	25	21		27	23	19	17
10	48	36	28	23	45	34	27	22	31	25	21		28	23	19		25	21	18	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	2.2
10°-20°	428.1	6.3
20°-30°	636.6	9.3
30°-40°	754.0	11.0
40°-50°	779.5	11.4
50°-60°	718.0	10.5
60°-70°	580.5	8.5
70°-80°	388.4	5.7
80°-90°	201.7	3.0
90°-100°	134.0	2.0
100°-110°	222.6	3.3
110°-120°	306.5	4.5
120°-130°	353.4	5.2
130°-140°	360.0	5.3
140°-150°	327.6	4.8
150°-160°	262.8	3.8
160°-170°	170.0	2.5
170°-180°	58.6	0.9
0°-30°	1215.5	17.8
0°-40°	1969.5	28.8
0°-60°	3467.0	50.7
0°-90°	4637.5	67.9
90°-120°	663.1	9.7
90°-150°	1704.1	24.9
90°-180°	2195.0	32.1
0°-180°	6833.0	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	79	135	174	186	19
95°	46	86	121	158	169	48
105°	149	175	222	254	264	157
115°	262	275	316	342	349	260
125°	365	367	398	421	428	326
135°	451	452	462	481	486	348
145°	521	520	520	528	532	325
155°	572	569	570	571	568	263
165°	603	600	601	604	600	170
175°	617	614	615	618	614	59
180°	617	617	617	617	617	

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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°	25.5	79.1	135.4	173.7	186.0
92.5°	30.6	71.8	129.2	165.8	177.3
95°	46.4	85.6	121.4	158.0	169.0
97.5°	67.6	107.9	116.0	149.7	161.2
100°	93.6	127.7	179.6	144.2	151.8
102.5°	119.9	151.4	200.7	232.9	203.9
105°	148.6	175.4	222.2	253.5	263.9
107.5°	178.1	200.0	246.2	277.8	285.4
110°	206.6	225.4	270.0	298.4	309.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	235.0	250.5	293.1	319.4	329.4
115°	261.8	275.0	316.1	342.5	349.0
117.5°	290.0	297.8	338.7	362.5	372.5
120°	317.4	321.7	358.9	384.6	391.7
122.5°	340.0	343.9	378.8	402.9	409.5
125°	365.2	366.9	398.1	421.3	427.7
127.5°	387.9	388.6	414.8	437.3	443.0
130°	409.9	410.6	432.9	453.5	459.0
132.5°	430.2	433.0	447.2	469.1	473.1
135°	450.8	452.1	462.1	481.4	486.5
137.5°	470.0	471.3	476.6	495.4	499.3
140°	487.3	488.2	489.2	507.4	510.9
142.5°	504.2	503.1	504.0	518.1	521.5
145°	520.7	520.0	520.0	528.2	531.8
147.5°	533.7	533.7	534.2	537.7	537.6
150°	547.4	546.5	547.4	548.3	546.3
152.5°	560.7	558.4	559.3	560.2	557.0
155°	571.7	568.9	569.8	571.2	567.5
157.5°	580.3	579.0	579.0	580.3	576.7
160°	589.5	586.7	587.2	589.0	585.4
162.5°	596.8	594.1	594.5	597.3	593.2
165°	603.2	600.5	600.9	603.7	600.0
167.5°	608.2	605.5	606.0	609.2	605.0
170°	612.4	609.2	609.6	613.3	609.2
172.5°	615.1	611.9	612.8	616.0	611.9
175°	616.9	614.2	614.6	618.3	614.2
177.5°	618.3	615.6	616.0	619.2	615.6
180°	616.9	616.9	616.9	616.9	616.9

(END OF REPORT)