

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: P1028027

Luminaire Tested: S125DIP-B610D1270UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028027
REPORT IS A COMBINATION OF REPORTS P1002206 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

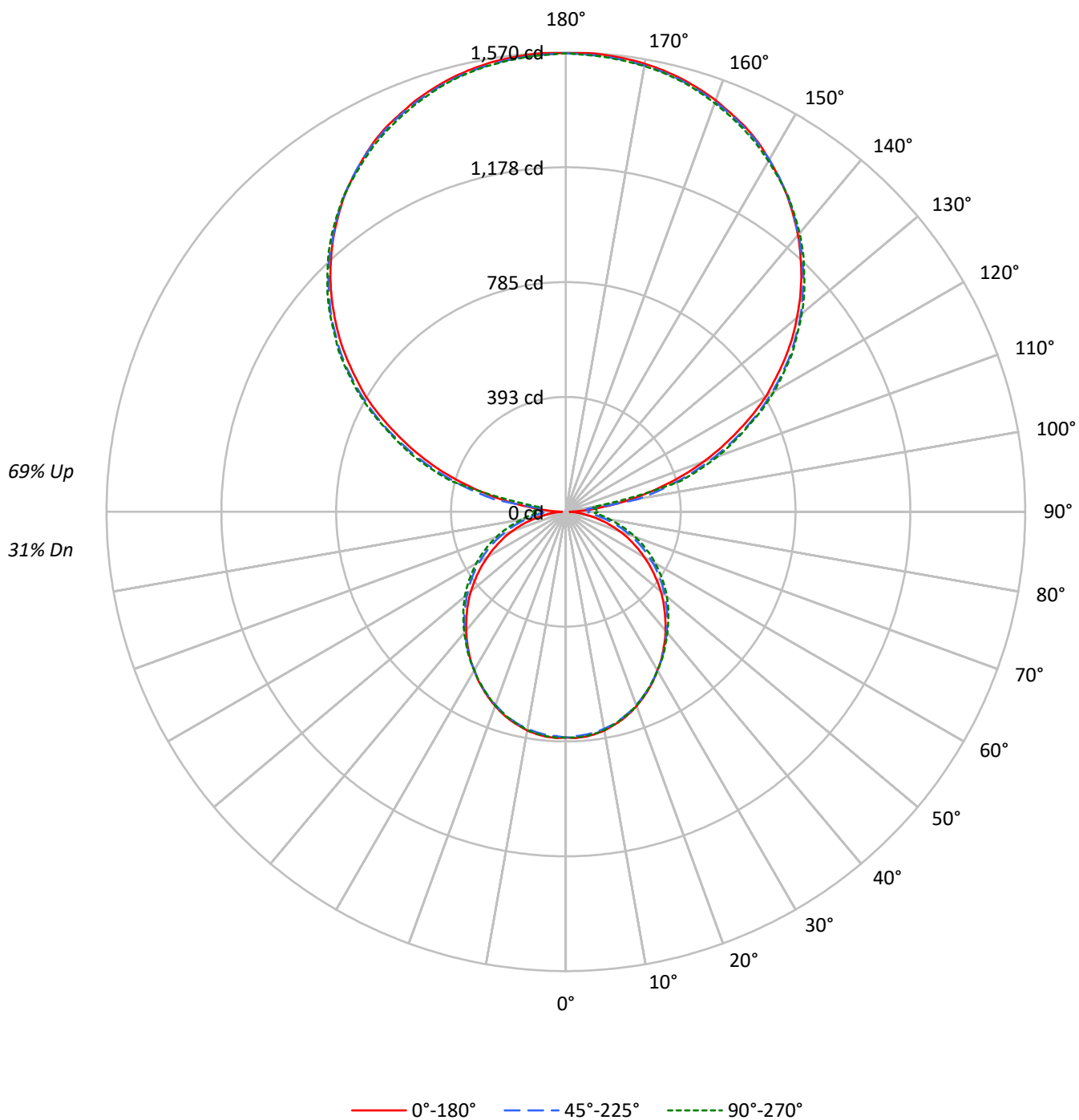
Lumens per Lamp: N/A
Luminaire Lumens: 7206.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
Input Voltage (V):
Input Current (A_{in}): 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
RCR																	
0	103	103	103	103	92	92	92	92	73	73	73		55	55	55		39
1	93	89	85	81	83	80	76	73	63	61	59		48	46	45		34
2	85	77	71	66	76	69	64	60	55	51	48		42	39	37		29
3	77	68	60	55	69	61	55	50	48	44	40		37	34	31		26
4	70	60	52	46	63	54	47	42	43	38	34		32	29	26		23
5	64	53	45	39	58	48	41	36	38	33	29		29	26	23		21
6	59	47	39	34	53	43	36	31	34	29	25		26	23	20		19
7	55	43	35	29	49	39	32	27	31	26	22		24	20	17		17
8	51	38	31	26	45	35	28	24	28	23	19		22	18	15		16
9	47	35	28	23	42	32	25	21	26	21	17		20	16	14		14
10	44	32	25	20	39	29	23	19	23	19	15		18	15	12		13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4945	4945	4945
5°	4953	4841	4853
10°	4916	4743	4730
15°	4856	4628	4577
20°	4776	4489	4425
25°	4680	4342	4242
30°	4564	4181	4075
35°	4455	4032	3921
40°	4345	3876	3767
45°	4221	3740	3627
50°	4102	3593	3502
55°	3958	3453	3356
60°	3801	3293	3206
65°	3636	3124	3038
70°	3448	2898	2862
75°	3152	2675	2648
80°	2763	2404	2411
85°	2378	2189	2288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.0
10°-20°	207.3	2.9
20°-30°	308.3	4.3
30°-40°	365.1	5.1
40°-50°	377.5	5.2
50°-60°	347.7	4.8
60°-70°	281.1	3.9
70°-80°	188.1	2.6
80°-90°	99.5	1.4
90°-100°	107.9	1.5
100°-110°	394.0	5.5
110°-120°	663.8	9.2
120°-130°	832.6	11.6
130°-140°	885.8	12.3
140°-150°	826.4	11.5
150°-160°	667.4	9.3
160°-170°	431.6	6.0
170°-180°	148.8	2.1
0°-30°	588.7	8.2
0°-40°	953.8	13.2
0°-60°	1679.1	23.3
0°-90°	2247.8	31.2
90°-120°	1165.7	16.2
90°-150°	3710.4	51.5
90°-180°	4958.0	68.8
0°-180°	7206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	770	765	771	770	73
15°	737	738	732	737	734	208
25°	670	672	667	670	667	308
35°	580	585	583	585	585	363
45°	478	486	490	495	496	368
55°	367	379	391	400	403	328
65°	253	270	288	300	303	251
75°	139	159	183	198	202	148
85°	42	67	93	110	116	43
90°	13	47	81	104	113	12
95°	76	92	74	96	102	89
105°	348	365	388	403	407	369
115°	646	657	678	686	684	640
125°	915	922	937	945	945	817
135°	1138	1145	1148	1155	1152	878
145°	1319	1320	1320	1326	1322	825
155°	1452	1445	1447	1451	1441	669
165°	1532	1525	1526	1533	1524	433
175°	1567	1560	1561	1570	1560	149
180°	1567	1567	1567	1567	1567	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.8	771.8	771.8	771.8	771.8
2.5°	774.1	772.6	767.3	772.6	771.8
5°	771.8	770.3	765.0	771.1	770.3
7.5°	766.5	765.8	760.5	765.8	765.0
10°	759.0	759.0	752.9	758.2	757.5
12.5°	748.4	749.1	744.6	748.4	746.1
15°	737.0	737.8	732.5	737.0	734.0
17.5°	722.6	724.2	718.9	722.6	720.4
20°	706.8	708.3	703.0	705.2	705.2
22.5°	688.6	691.6	685.6	688.6	686.3
25°	669.7	671.9	667.4	670.4	666.7
27.5°	649.2	652.3	647.0	649.2	647.7
30°	625.8	630.3	625.8	627.3	626.5
32.5°	604.6	608.4	605.4	606.9	606.1
35°	579.6	584.9	582.7	584.9	584.9
37.5°	555.4	560.0	559.2	562.2	561.5
40°	530.4	536.5	535.7	538.8	540.3
42.5°	503.2	511.5	513.8	517.6	517.6
45°	477.5	485.8	489.6	494.9	495.6
47.5°	451.0	458.6	464.6	472.2	473.7
50°	423.8	432.1	440.4	448.7	451.0
52.5°	395.0	405.6	416.2	425.3	426.8
55°	367.0	379.1	391.2	399.5	402.6
57.5°	338.2	352.6	366.2	375.3	377.6
60°	309.5	324.6	339.8	351.1	353.4
62.5°	281.5	296.6	313.3	326.1	329.2
65°	252.7	270.1	288.3	299.7	302.7
67.5°	226.3	242.9	261.1	274.7	278.5
70°	196.7	214.1	233.8	248.2	252.7
72.5°	168.0	186.1	208.1	224.0	227.0
75°	139.2	158.9	183.1	198.3	202.0
77.5°	111.2	133.9	156.6	173.3	176.3
80°	85.5	108.2	133.9	150.6	153.6
82.5°	62.0	86.3	112.7	128.6	134.7
85°	41.6	66.6	93.1	109.7	115.8
87.5°	26.5	50.7	76.4	93.8	99.1
90°	13.3	46.8	80.6	103.9	112.7
92.5°	32.7	44.1	77.6	100.1	106.6
95°	76.0	92.2	73.8	96.3	101.6
97.5°	133.4	158.4	73.1	91.3	97.8
100°	202.3	221.6	250.5	93.3	93.3
102.5°	272.4	291.3	317.2	334.6	241.6
105°	348.3	365.0	387.7	402.9	406.9
107.5°	426.5	437.0	461.4	477.6	477.6
110°	502.4	511.5	535.0	545.8	552.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	574.4	584.7	606.2	615.3	618.3
115°	645.6	656.7	677.6	686.5	684.1
117.5°	720.4	724.2	747.7	753.6	756.5
120°	790.1	791.2	812.1	822.6	821.4
122.5°	850.8	857.4	875.2	885.0	882.6
125°	914.7	922.1	937.2	944.7	945.0
127.5°	975.6	980.6	992.3	1001.3	996.6
130°	1031.3	1036.3	1048.1	1055.2	1053.2
132.5°	1086.3	1093.2	1097.3	1107.9	1105.1
135°	1138.5	1144.8	1147.8	1155.2	1152.1
137.5°	1187.3	1193.6	1194.2	1203.3	1200.5
140°	1234.2	1236.5	1236.1	1246.7	1242.8
142.5°	1277.2	1277.5	1279.9	1286.7	1282.7
145°	1319.0	1320.5	1320.5	1325.5	1321.5
147.5°	1355.4	1355.4	1356.5	1359.2	1352.6
150°	1390.2	1387.9	1390.2	1392.5	1384.0
152.5°	1423.9	1418.1	1420.4	1422.7	1414.6
155°	1451.8	1444.8	1447.1	1450.6	1441.3
157.5°	1473.8	1470.3	1470.3	1473.8	1464.5
160°	1497.0	1490.1	1491.2	1495.9	1486.6
162.5°	1515.6	1508.7	1509.8	1516.8	1506.3
165°	1531.9	1524.9	1526.1	1533.1	1523.8
167.5°	1544.7	1537.7	1538.9	1547.0	1536.5
170°	1555.1	1547.0	1548.2	1557.4	1547.0
172.5°	1562.1	1554.0	1556.3	1564.4	1554.0
175°	1566.7	1559.8	1560.9	1570.2	1559.8
177.5°	1570.2	1563.2	1564.4	1572.5	1563.2
180°	1566.7	1566.7	1566.7	1566.7	1566.7

(END OF REPORT)