

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: P1027983

Luminaire Tested: S125DIP-B610D1090UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027983
REPORT IS A COMBINATION OF REPORTS P1002147 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1090UB30-4F0-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

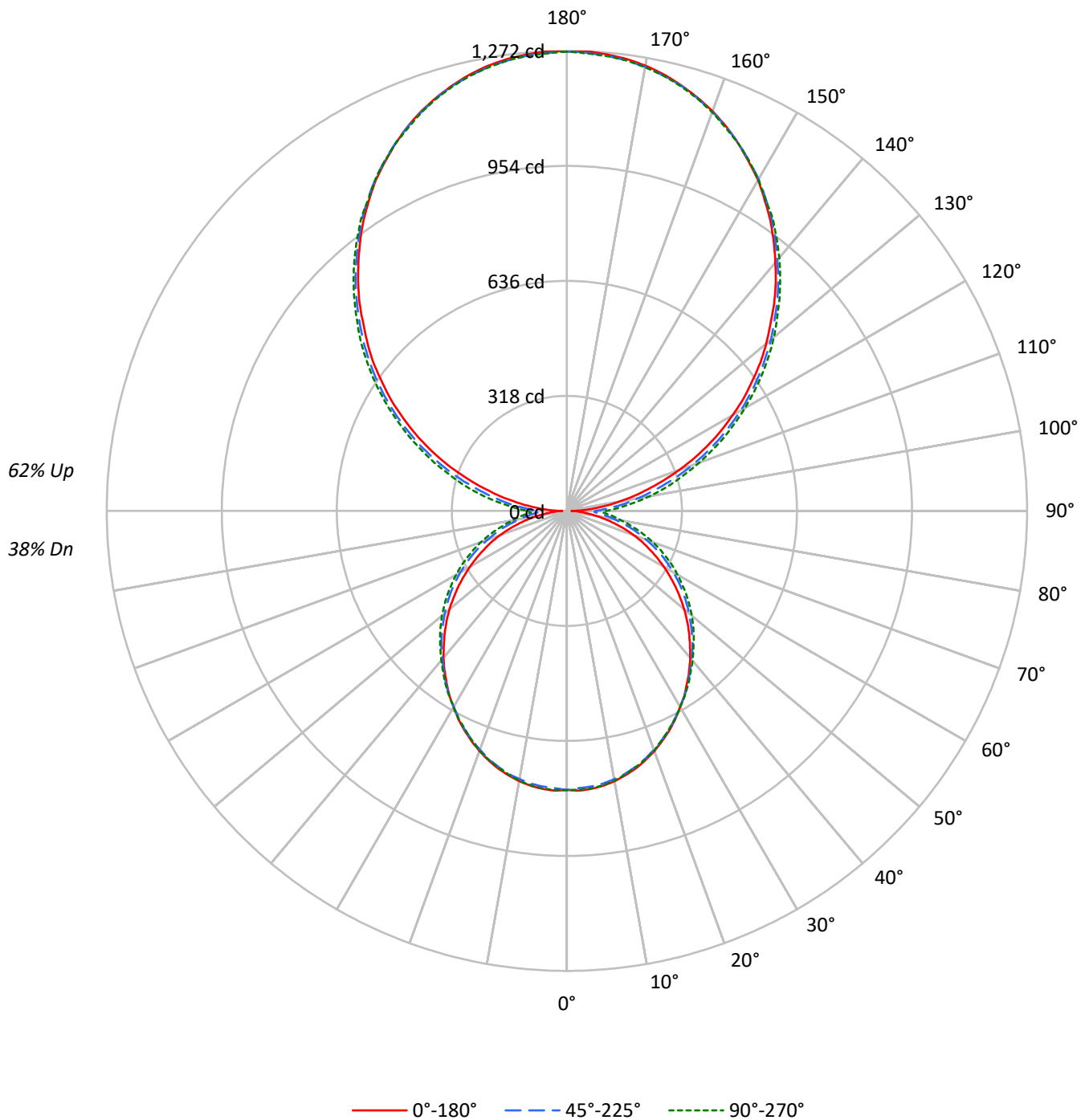
Lumens per Lamp: N/A
Luminaire Lumens: 5938.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45			38
1	95	90	86	82	86	82	78	75	66	64	62	52	50	49	39	38	37			31
2	86	78	72	67	77	71	66	61	58	54	51	45	43	40	34	32	31			25
3	78	69	61	55	70	62	56	51	51	46	42	40	37	34	30	28	26			21
4	71	60	53	47	64	55	48	43	45	40	36	35	32	29	27	24	22			18
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19			16
6	60	48	40	34	54	44	37	32	36	31	27	28	25	22	22	19	17			14
7	55	43	35	30	50	40	33	28	32	27	23	26	22	19	20	17	15			12
8	51	39	31	26	46	36	29	24	30	24	21	24	20	17	18	15	13			11
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12			10
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	13	11			9

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	1.2
10°-20°	207.3	3.5
20°-30°	308.3	5.2
30°-40°	365.1	6.1
40°-50°	377.5	6.4
50°-60°	347.7	5.9
60°-70°	281.1	4.7
70°-80°	188.1	3.2
80°-90°	99.2	1.7
90°-100°	139.2	2.3
100°-110°	291.3	4.9
110°-120°	452.6	7.6
120°-130°	575.5	9.7
130°-140°	634.5	10.7
140°-150°	616.7	10.4
150°-160°	516.9	8.7
160°-170°	343.6	5.8
170°-180°	120.2	2.0
0°-30°	588.7	9.9
0°-40°	953.8	16.1
0°-60°	1679.1	28.3
0°-90°	2247.5	37.8
90°-120°	883.1	14.9
90°-150°	2709.8	45.6
90°-180°	3691.0	62.2
0°-180°	5938.0	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	45	78	100	108	13
95°	74	96	131	155	162	75
105°	232	249	278	299	307	248
115°	430	440	462	474	478	426
125°	625	630	646	656	659	560
135°	810	815	822	831	831	624
145°	980	984	986	990	990	613
155°	1121	1121	1122	1126	1121	516
165°	1219	1217	1218	1222	1216	344
175°	1267	1263	1263	1269	1262	120
180°	1270	1270	1270	1270	1270	

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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°	13.1	45.2	77.8	100.3	108.5
92.5°	40.3	67.1	102.5	126.1	133.4
95°	74.1	95.7	131.3	154.9	162.2
97.5°	107.9	127.0	165.9	187.7	194.0
100°	146.7	162.6	199.6	224.4	231.0
102.5°	188.5	207.7	236.2	261.2	268.7
105°	232.2	249.2	277.8	299.0	307.1
107.5°	279.9	295.4	322.3	340.4	345.0
110°	329.5	343.6	367.7	385.0	389.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.9	389.7	414.1	428.7	432.1
115°	430.5	439.8	461.5	474.1	477.7
117.5°	481.2	486.0	506.9	520.7	522.0
120°	528.7	535.9	554.3	567.1	567.8
122.5°	579.3	581.1	600.6	611.8	613.4
125°	624.8	630.0	646.1	656.2	659.0
127.5°	674.5	676.6	690.5	700.8	703.5
130°	718.9	723.1	735.7	745.3	747.1
132.5°	762.6	771.5	778.1	787.8	787.8
135°	810.1	815.3	821.6	831.4	831.2
137.5°	854.6	859.8	864.8	874.9	872.9
140°	896.4	901.3	905.0	915.2	913.4
142.5°	938.9	942.0	946.0	953.8	951.8
145°	980.4	983.5	986.5	990.3	990.3
147.5°	1018.1	1021.1	1023.1	1027.5	1021.1
150°	1056.7	1055.7	1059.7	1059.7	1058.5
152.5°	1088.3	1090.3	1091.3	1094.2	1090.3
155°	1120.9	1120.9	1121.9	1125.9	1120.9
157.5°	1150.6	1148.6	1149.6	1153.6	1146.6
160°	1176.3	1173.3	1174.3	1178.3	1173.3
162.5°	1199.0	1197.1	1197.1	1202.0	1196.1
165°	1218.8	1216.8	1217.8	1221.8	1215.8
167.5°	1236.6	1232.6	1232.6	1238.6	1232.6
170°	1250.4	1246.5	1246.5	1252.4	1245.5
172.5°	1260.3	1256.4	1256.4	1262.3	1256.4
175°	1267.2	1263.3	1263.3	1269.2	1262.3
177.5°	1272.2	1268.2	1267.2	1273.2	1266.2
180°	1270.2	1270.2	1270.2	1270.2	1270.2

(END OF REPORT)