

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: P1028037

Luminaire Tested: S125DIP-B610D1270UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028037
REPORT IS A COMBINATION OF REPORTS P1002216 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

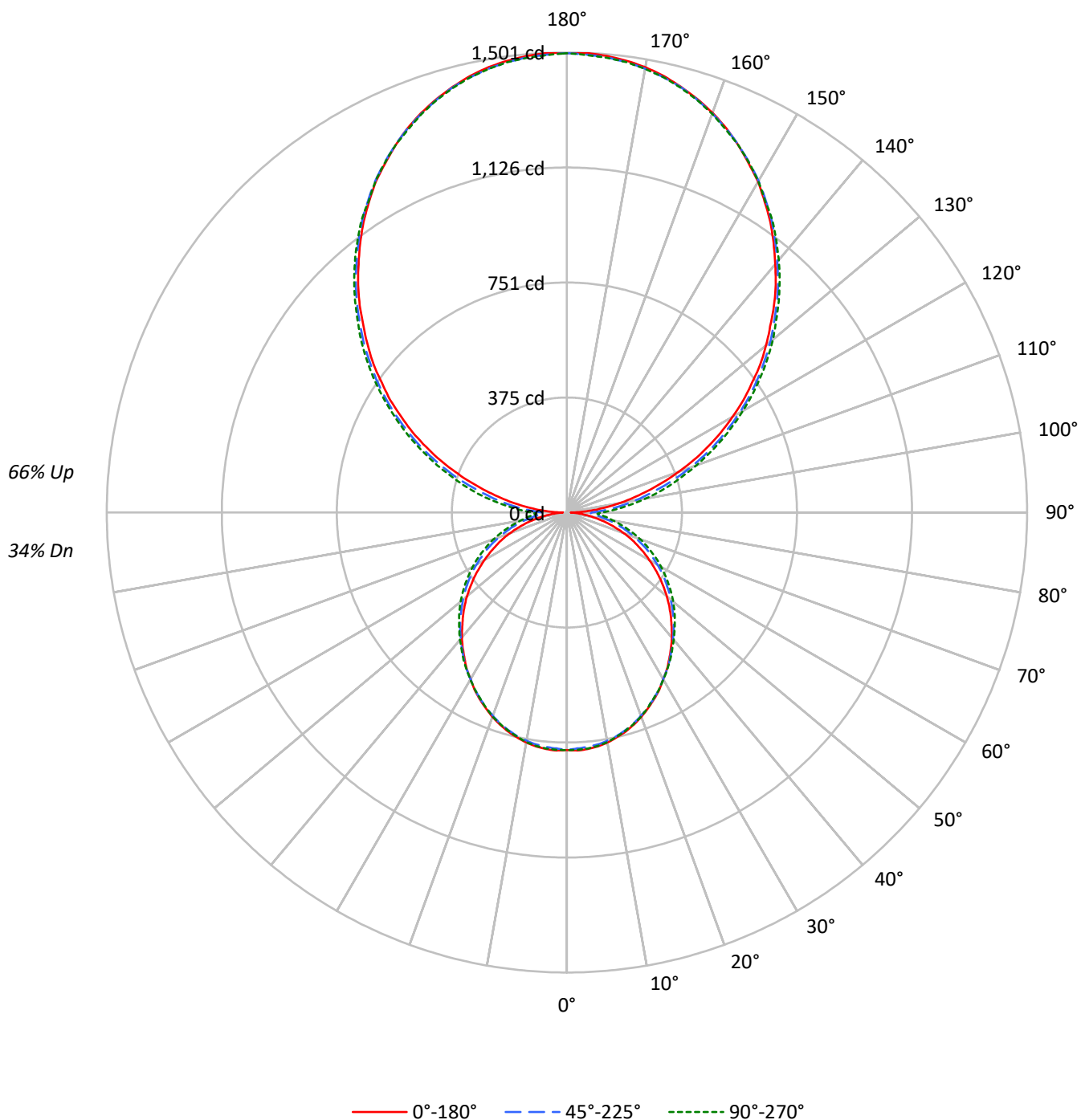
Lumens per Lamp: N/A
Luminaire Lumens: 6586.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
Input Voltage (V):
Input Current (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
RCR																	
0	103	103	103	103	93	93	93	93	75	75	75		57	57	57		42
1	94	89	85	82	84	81	77	74	65	62	60		50	48	47		36
2	85	78	71	66	76	70	65	60	56	52	49		43	41	39		31
3	77	68	61	55	70	62	55	50	49	45	41		38	35	32		28
4	71	60	52	46	63	54	48	42	44	39	35		34	30	28		25
5	65	53	45	39	58	48	41	36	39	34	30		30	27	24		22
6	60	48	40	34	54	43	36	31	35	30	26		27	23	21		20
7	55	43	35	30	49	39	32	27	32	26	23		25	21	18		18
8	51	39	31	26	46	35	29	24	29	24	20		23	19	16		17
9	47	35	28	23	43	32	26	21	26	21	18		21	17	14		15
10	44	32	25	20	40	29	23	19	24	19	16		19	15	13		14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.1
10°-20°	208.2	3.2
20°-30°	309.6	4.7
30°-40°	366.7	5.6
40°-50°	379.1	5.8
50°-60°	349.2	5.3
60°-70°	282.3	4.3
70°-80°	188.9	2.9
80°-90°	100.0	1.5
90°-100°	154.7	2.3
100°-110°	336.6	5.1
110°-120°	529.3	8.0
120°-130°	676.4	10.3
130°-140°	747.4	11.3
140°-150°	727.4	11.0
150°-160°	609.8	9.3
160°-170°	405.4	6.2
170°-180°	141.9	2.2
0°-30°	591.2	9.0
0°-40°	957.8	14.5
0°-60°	1686.1	25.6
0°-90°	2257.3	34.3
90°-120°	1020.5	15.5
90°-150°	3171.7	48.2
90°-180°	4329.0	65.7
0°-180°	6586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	13	47	81	104	113	14
95°	86	108	145	170	178	87
105°	273	291	320	343	352	291
115°	507	517	539	552	555	502
125°	737	743	759	769	772	660
135°	956	962	968	978	977	737
145°	1157	1160	1164	1168	1167	723
155°	1323	1323	1324	1328	1323	609
165°	1438	1436	1437	1442	1434	406
175°	1495	1490	1490	1498	1489	142
180°	1499	1499	1499	1499	1499	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	13.4	47.0	81.0	104.3	113.1
92.5°	45.6	73.5	110.6	135.5	143.1
95°	85.7	107.7	145.3	170.2	177.8
97.5°	125.7	145.2	186.5	209.5	216.0
100°	171.7	187.6	227.0	253.5	260.4
102.5°	221.0	241.3	270.7	297.6	305.6
105°	272.7	290.7	320.5	342.7	351.5
107.5°	329.2	345.6	373.5	392.2	396.7
110°	387.8	402.8	427.6	445.6	449.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	448.5	457.7	482.9	497.8	500.7
115°	507.3	517.2	539.3	551.8	555.2
117.5°	567.1	572.1	593.4	607.5	608.1
120°	623.1	631.2	649.9	662.8	662.6
122.5°	682.9	684.9	705.1	716.1	717.1
125°	736.6	742.9	759.3	769.0	771.7
127.5°	795.4	798.1	812.1	822.4	824.6
130°	847.9	852.9	865.9	875.4	876.8
132.5°	899.5	910.0	916.5	926.0	925.5
135°	955.5	961.8	968.3	978.2	977.3
137.5°	1008.0	1014.3	1019.6	1029.9	1027.2
140°	1057.4	1063.3	1067.5	1078.2	1075.4
142.5°	1107.6	1111.5	1116.1	1124.1	1121.4
145°	1156.6	1160.4	1163.9	1167.7	1167.2
147.5°	1201.3	1204.8	1207.1	1212.1	1204.3
150°	1246.8	1245.6	1250.3	1250.3	1248.7
152.5°	1284.1	1286.4	1287.6	1291.1	1286.4
155°	1322.6	1322.6	1323.7	1328.4	1322.6
157.5°	1357.6	1355.2	1356.4	1361.0	1352.9
160°	1387.9	1384.4	1385.5	1390.2	1384.4
162.5°	1414.7	1412.4	1412.4	1418.2	1411.2
165°	1438.0	1435.7	1436.9	1441.5	1434.5
167.5°	1459.0	1454.4	1454.4	1461.3	1454.4
170°	1475.3	1470.7	1470.7	1477.7	1469.5
172.5°	1487.0	1482.3	1482.3	1489.3	1482.3
175°	1495.2	1490.5	1490.5	1497.5	1489.3
177.5°	1501.0	1496.3	1495.2	1502.2	1494.0
180°	1498.7	1498.7	1498.7	1498.7	1498.7

(END OF REPORT)