

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: P1028028

Luminaire Tested: S125DIP-B610D1270UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028028
REPORT IS A COMBINATION OF REPORTS P1002207 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-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

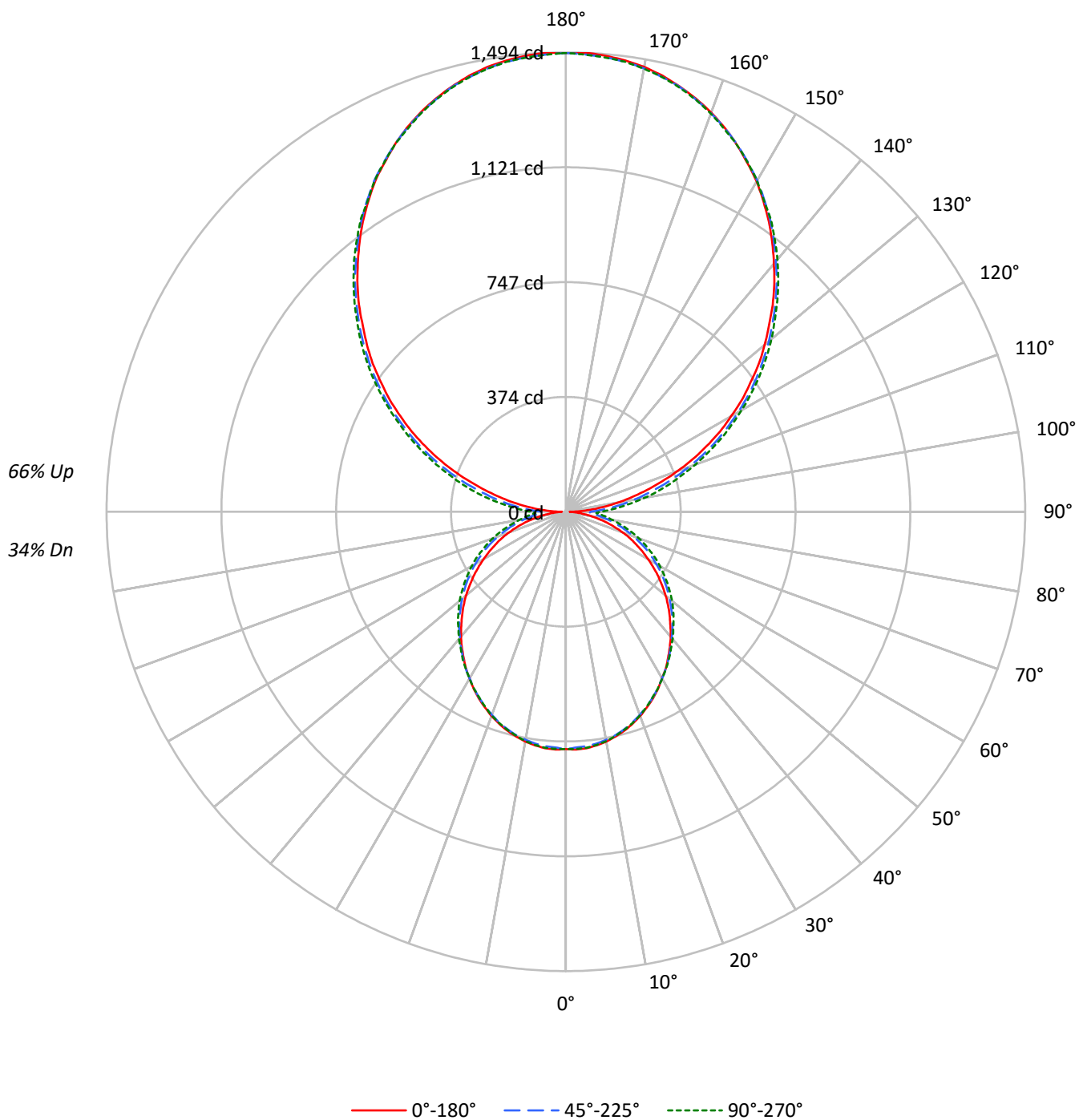
Lumens per Lamp: N/A
Luminaire Lumens: 6558.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	30	10	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42			34
1	94	89	85	82	84	81	77	74	65	62	60	50	48	47	36	35	34			28
2	85	78	71	66	77	70	65	60	56	52	49	43	41	39	31	30	28			23
3	77	68	61	55	70	62	55	50	49	45	41	38	35	32	28	26	24			19
4	71	60	52	46	63	54	48	42	44	39	35	34	30	28	25	22	20			16
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18			14
6	60	48	40	34	54	43	36	31	35	30	26	27	23	21	20	17	15			12
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14			11
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12			10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	15	13	11			9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10			8

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	1.1
10°-20°	207.3	3.2
20°-30°	308.3	4.7
30°-40°	365.1	5.6
40°-50°	377.5	5.8
50°-60°	347.7	5.3
60°-70°	281.1	4.3
70°-80°	188.1	2.9
80°-90°	99.5	1.5
90°-100°	154.0	2.3
100°-110°	335.2	5.1
110°-120°	527.0	8.0
120°-130°	673.5	10.3
130°-140°	744.2	11.3
140°-150°	724.2	11.0
150°-160°	607.2	9.3
160°-170°	403.6	6.2
170°-180°	141.3	2.2
0°-30°	588.7	9.0
0°-40°	953.8	14.5
0°-60°	1679.1	25.6
0°-90°	2247.8	34.3
90°-120°	1016.1	15.5
90°-150°	3158.0	48.2
90°-180°	4310.0	65.7
0°-180°	6558.0	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	13
95°	85	107	145	169	177	87
105°	272	290	319	341	350	290
115°	505	515	537	549	553	500
125°	733	740	756	766	768	657
135°	951	958	964	974	973	733
145°	1152	1156	1159	1163	1162	720
155°	1317	1317	1318	1323	1317	607
165°	1432	1430	1431	1435	1428	404
175°	1489	1484	1484	1491	1483	141
180°	1492	1492	1492	1492	1492	

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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°	45.4	73.1	110.1	134.9	142.5
95°	85.3	107.3	144.6	169.4	177.1
97.5°	125.2	144.5	185.7	208.6	215.1
100°	170.9	186.8	226.1	252.4	259.3
102.5°	220.1	240.2	269.5	296.2	304.3
105°	271.6	289.5	319.1	341.3	350.0
107.5°	327.8	344.1	371.9	390.5	395.1
110°	386.2	401.1	425.8	443.6	447.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.6	455.7	480.7	495.6	498.6
115°	505.0	514.9	537.0	549.4	552.8
117.5°	564.7	569.7	590.9	604.8	605.5
120°	620.4	628.5	647.1	659.9	659.9
122.5°	680.0	682.0	702.1	713.0	714.1
125°	733.4	739.7	756.0	765.7	768.4
127.5°	792.0	794.6	808.7	818.8	821.1
130°	844.2	849.2	862.1	871.6	873.1
132.5°	895.7	906.1	912.6	922.0	921.5
135°	951.4	957.7	964.1	973.9	973.1
137.5°	1003.7	1009.9	1015.3	1025.5	1022.7
140°	1052.9	1058.7	1062.9	1073.5	1070.8
142.5°	1102.8	1106.7	1111.3	1119.3	1116.5
145°	1151.6	1155.5	1158.9	1162.7	1162.3
147.5°	1196.1	1199.6	1201.9	1206.9	1199.1
150°	1241.4	1240.2	1244.9	1244.9	1243.4
152.5°	1278.6	1280.9	1282.0	1285.5	1280.9
155°	1316.9	1316.9	1318.0	1322.7	1316.9
157.5°	1351.7	1349.4	1350.5	1355.2	1347.1
160°	1381.9	1378.4	1379.6	1384.2	1378.4
162.5°	1408.6	1406.3	1406.3	1412.1	1405.1
165°	1431.8	1429.5	1430.7	1435.3	1428.4
167.5°	1452.7	1448.1	1448.1	1455.1	1448.1
170°	1469.0	1464.4	1464.4	1471.3	1463.2
172.5°	1480.6	1476.0	1476.0	1482.9	1476.0
175°	1488.7	1484.1	1484.1	1491.1	1482.9
177.5°	1494.5	1489.9	1488.7	1495.7	1487.6
180°	1492.2	1492.2	1492.2	1492.2	1492.2

(END OF REPORT)