

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: P1028030

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028030
REPORT IS A COMBINATION OF REPORTS P1002209 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-F
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

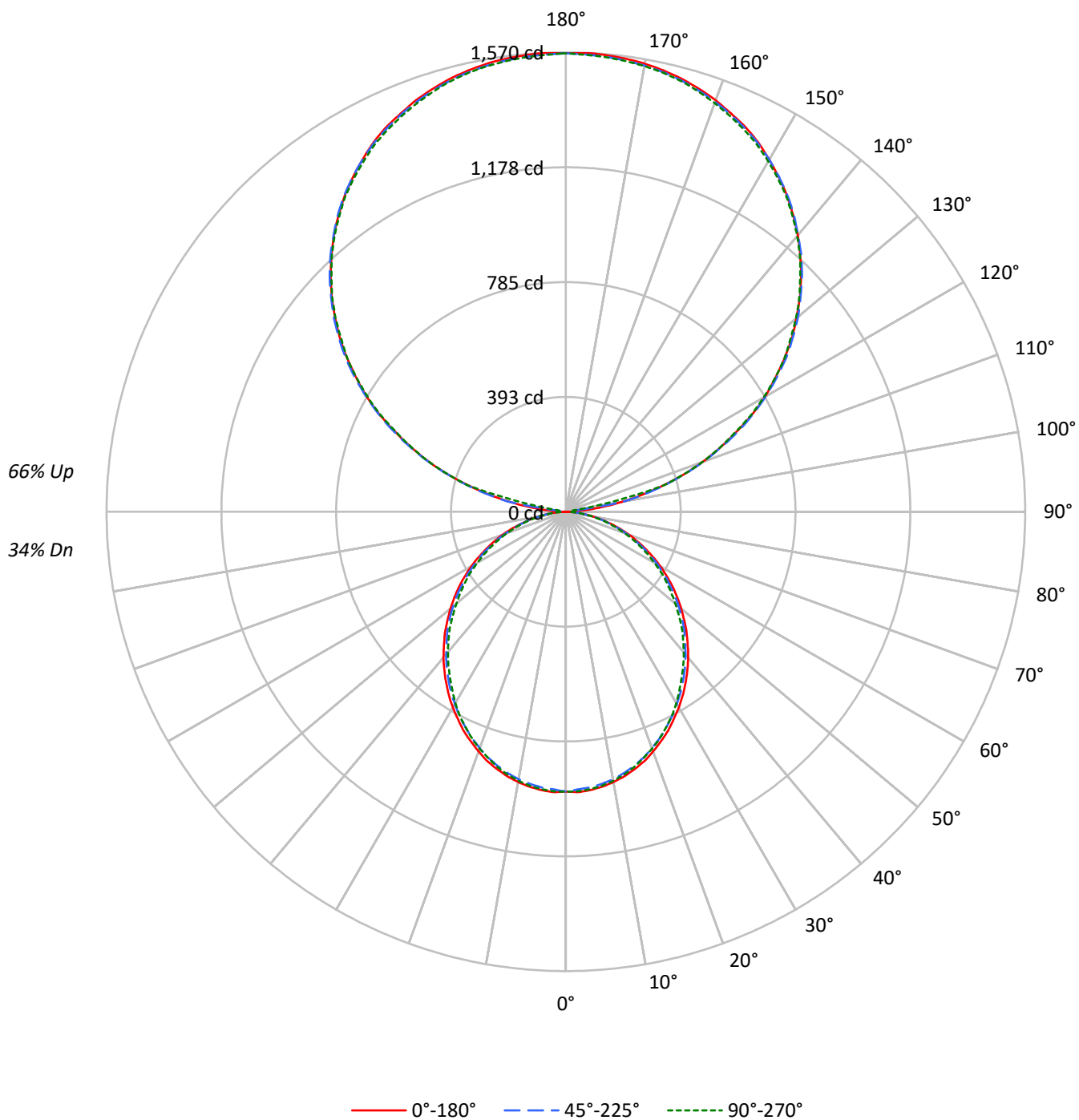
Lumens per Lamp: N/A
Luminaire Lumens: 7304.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	30	10
RCR																	
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	37	36	35
2	86	78	72	67	77	71	66	62	57	53	50	44	42	40	32	31	29
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	27	25
4	71	61	53	47	64	55	49	43	45	40	36	35	31	29	25	23	21
5	65	54	46	40	59	49	42	37	40	35	31	31	27	25	23	21	19
6	60	48	41	35	54	44	37	32	36	31	27	28	24	22	21	18	16
7	56	44	36	30	50	40	33	28	32	27	24	25	22	19	19	16	15
8	51	39	32	27	46	36	29	25	29	24	21	23	20	17	17	15	13
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6127	6127	6127
5°	6127	5985	5997
10°	6076	5848	5829
15°	5997	5684	5632
20°	5889	5493	5407
25°	5773	5285	5165
30°	5634	5069	4911
35°	5484	4843	4626
40°	5330	4603	4372
45°	5163	4370	4103
50°	4980	4105	3789
55°	4798	3813	3500
60°	4581	3504	3165
65°	4322	3148	2817
70°	4058	2738	2417
75°	3614	2254	1953
80°	3080	1684	1436
85°	2378	997	792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	1.2
10°-20°	254.9	3.5
20°-30°	376.3	5.2
30°-40°	439.0	6.0
40°-50°	440.9	6.0
50°-60°	387.1	5.3
60°-70°	288.3	3.9
70°-80°	164.6	2.3
80°-90°	49.9	0.7
90°-100°	53.2	0.7
100°-110°	353.6	4.8
110°-120°	636.8	8.7
120°-130°	817.3	11.2
130°-140°	879.0	12.0
140°-150°	825.0	11.3
150°-160°	667.3	9.1
160°-170°	431.6	5.9
170°-180°	148.8	2.0
0°-30°	721.4	9.9
0°-40°	1160.5	15.9
0°-60°	1988.5	27.2
0°-90°	2491.3	34.1
90°-120°	1043.5	14.3
90°-150°	3564.9	48.8
90°-180°	4813.0	65.9
0°-180°	7304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	955	953	946	952	952	91
15°	910	908	900	903	903	257
25°	826	822	812	814	812	380
35°	713	710	700	696	690	446
45°	584	581	572	563	561	450
55°	445	443	432	425	420	397
65°	300	299	290	284	281	298
75°	160	158	154	152	149	170
85°	42	42	42	42	40	46
90°	1	10	19	24	28	6
95°	66	63	19	24	24	81
105°	342	346	346	346	345	362
115°	641	647	648	643	636	636
125°	912	920	920	915	912	814
135°	1137	1144	1142	1139	1132	877
145°	1318	1320	1320	1322	1315	824
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°	956.3	956.3	956.3	956.3	956.3
2.5°	959.3	957.1	949.5	957.1	956.3
5°	954.8	953.3	945.7	952.5	951.8
7.5°	948.0	946.5	938.1	944.9	944.2
10°	938.1	936.6	928.3	934.4	933.6
12.5°	926.0	923.0	915.4	920.0	920.0
15°	910.1	907.9	899.6	903.3	903.3
17.5°	893.5	889.7	881.4	885.9	882.2
20°	871.6	870.0	860.2	865.5	861.7
22.5°	849.6	846.6	837.5	840.5	838.3
25°	826.2	822.4	812.5	814.1	811.8
27.5°	798.9	796.7	786.8	787.6	785.3
30°	772.5	770.2	758.8	757.3	755.0
32.5°	743.7	739.9	730.1	727.1	722.5
35°	713.4	710.4	699.8	696.0	690.0
37.5°	682.4	678.6	668.8	663.5	659.7
40°	650.6	646.9	636.3	629.5	627.2
42.5°	616.6	613.6	603.0	596.9	593.1
45°	584.1	581.0	572.0	562.9	560.6
47.5°	548.5	549.3	537.9	528.8	523.5
50°	514.5	512.2	503.1	493.3	488.0
52.5°	479.7	478.1	468.3	460.0	453.9
55°	444.9	442.6	432.0	425.2	419.9
57.5°	407.8	407.0	398.0	388.9	386.6
60°	373.0	370.0	361.6	354.1	348.8
62.5°	336.7	334.4	327.6	319.3	315.5
65°	300.4	298.8	290.5	283.7	280.7
67.5°	264.8	261.8	255.7	249.7	248.2
70°	231.5	227.7	220.9	216.4	213.4
72.5°	195.2	192.9	189.1	183.8	180.8
75°	159.6	158.1	154.3	152.1	149.0
77.5°	126.3	125.6	123.3	121.8	119.5
80°	95.3	95.3	93.8	93.1	91.5
82.5°	68.1	66.6	66.6	65.1	65.1
85°	41.6	42.4	42.4	41.6	40.1
87.5°	20.4	20.4	19.7	19.7	18.2
90°	1.2	10.5	18.6	24.4	27.9
92.5°	22.1	11.6	18.6	24.4	25.6
95°	66.2	62.7	18.6	24.4	24.4
97.5°	124.3	131.2	20.9	23.2	24.4
100°	194.0	197.4	202.1	29.0	24.4
102.5°	264.8	269.4	271.8	274.1	176.5
105°	341.5	346.1	346.1	346.1	344.9
107.5°	420.4	420.4	422.8	423.9	419.3
110°	497.1	497.1	499.4	495.9	497.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	569.1	572.6	573.7	569.1	566.8
115°	641.1	646.9	648.1	643.4	636.4
117.5°	716.6	716.6	721.2	714.3	711.9
120°	786.3	785.1	788.6	786.3	780.5
122.5°	847.8	853.6	854.8	852.5	845.5
125°	911.7	919.8	919.8	915.2	911.7
127.5°	973.3	979.1	977.9	975.6	966.3
130°	1029.0	1034.8	1036.0	1032.5	1026.7
132.5°	1084.8	1091.7	1088.2	1088.2	1082.4
135°	1137.0	1144.0	1141.7	1139.3	1132.4
137.5°	1185.8	1192.8	1190.4	1190.4	1184.6
140°	1233.4	1235.7	1234.6	1236.9	1229.9
142.5°	1276.4	1277.5	1279.9	1279.9	1272.9
145°	1318.2	1320.5	1320.5	1321.7	1314.7
147.5°	1355.4	1355.4	1356.5	1357.7	1349.6
150°	1390.2	1387.9	1390.2	1392.5	1383.2
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)