

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: P1028031

Luminaire Tested: S125DIP-B610D1270UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028031
REPORT IS A COMBINATION OF REPORTS P1002210 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-F1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

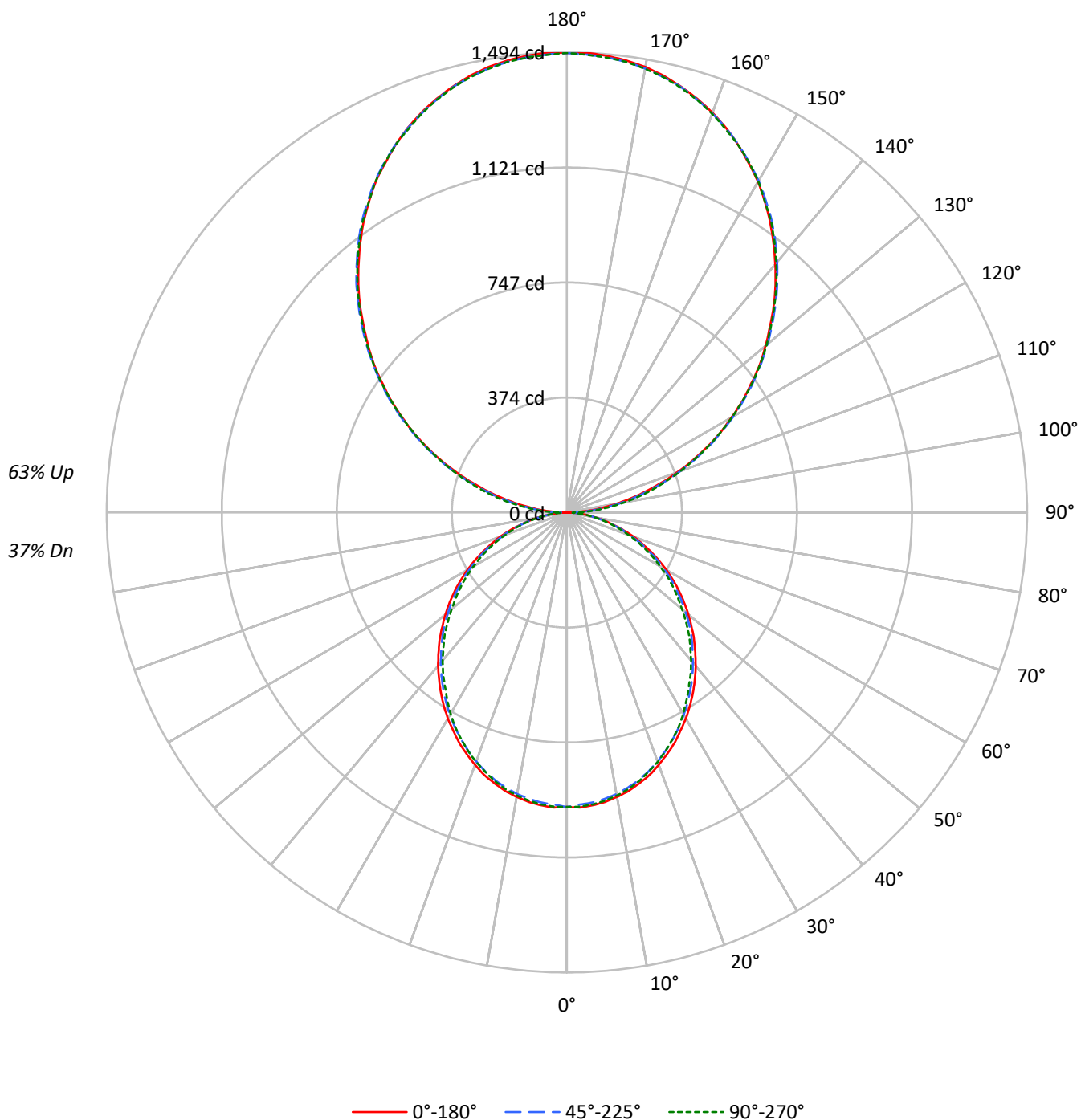
Lumens per Lamp: N/A
Luminaire Lumens: 6656.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45			37
1	95	91	87	83	86	82	79	76	67	65	62	52	51	50	39	38	38			31
2	86	79	73	68	78	72	67	62	58	55	52	46	44	41	35	33	32			26
3	79	69	62	57	71	63	57	52	52	47	43	41	38	35	31	29	27			22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23			19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	25	22	20			17
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	20	18			15
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16			13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14			12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13			10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11			9

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	1.4
10°-20°	254.9	3.8
20°-30°	376.3	5.7
30°-40°	439.0	6.6
40°-50°	440.9	6.6
50°-60°	387.1	5.8
60°-70°	288.3	4.3
70°-80°	164.6	2.5
80°-90°	49.9	0.7
90°-100°	99.2	1.5
100°-110°	294.8	4.4
110°-120°	499.9	7.5
120°-130°	658.2	9.9
130°-140°	737.5	11.1
140°-150°	722.9	10.9
150°-160°	607.2	9.1
160°-170°	403.6	6.1
170°-180°	141.3	2.1
0°-30°	721.4	10.8
0°-40°	1160.5	17.4
0°-60°	1988.5	29.9
0°-90°	2491.3	37.4
90°-120°	894.0	13.4
90°-150°	3012.5	45.3
90°-180°	4165.0	62.6
0°-180°	6656.0	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	8
95°	76	78	89	98	100	79
105°	265	271	278	284	288	282
115°	500	505	508	506	505	495
125°	730	737	739	736	735	654
135°	950	957	958	958	953	732
145°	1151	1156	1159	1159	1156	719
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°	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°	34.8	40.6	51.1	59.2	61.5
95°	75.5	77.8	89.4	97.5	99.9
97.5°	116.1	117.3	133.5	140.5	141.7
100°	162.6	162.6	177.7	188.1	190.4
102.5°	212.5	218.3	224.1	235.7	239.2
105°	264.8	270.6	277.5	284.5	288.0
107.5°	321.7	327.5	333.3	336.8	336.8
110°	380.9	386.7	390.2	393.7	392.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	441.3	443.6	448.2	449.4	447.1
115°	500.5	505.1	507.5	506.3	505.1
117.5°	560.9	562.1	564.4	565.5	560.9
120°	616.6	622.4	623.6	623.6	619.0
122.5°	677.0	678.2	681.7	680.5	677.0
125°	730.4	737.4	738.6	736.2	735.1
127.5°	789.7	793.1	794.3	793.1	790.8
130°	841.9	847.7	850.0	848.9	846.6
132.5°	894.2	904.6	903.5	902.3	898.8
135°	949.9	956.9	958.0	958.0	953.4
137.5°	1002.2	1009.1	1011.5	1012.6	1006.8
140°	1052.1	1057.9	1061.4	1063.7	1057.9
142.5°	1102.0	1106.7	1111.3	1112.5	1106.7
145°	1150.8	1155.5	1158.9	1158.9	1155.5
147.5°	1196.1	1199.6	1201.9	1205.4	1196.1
150°	1241.4	1240.2	1244.9	1244.9	1242.6
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)