

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: P1028032

Luminaire Tested: S125DIP-B610D1270UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028032
REPORT IS A COMBINATION OF REPORTS P1002211 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-F4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

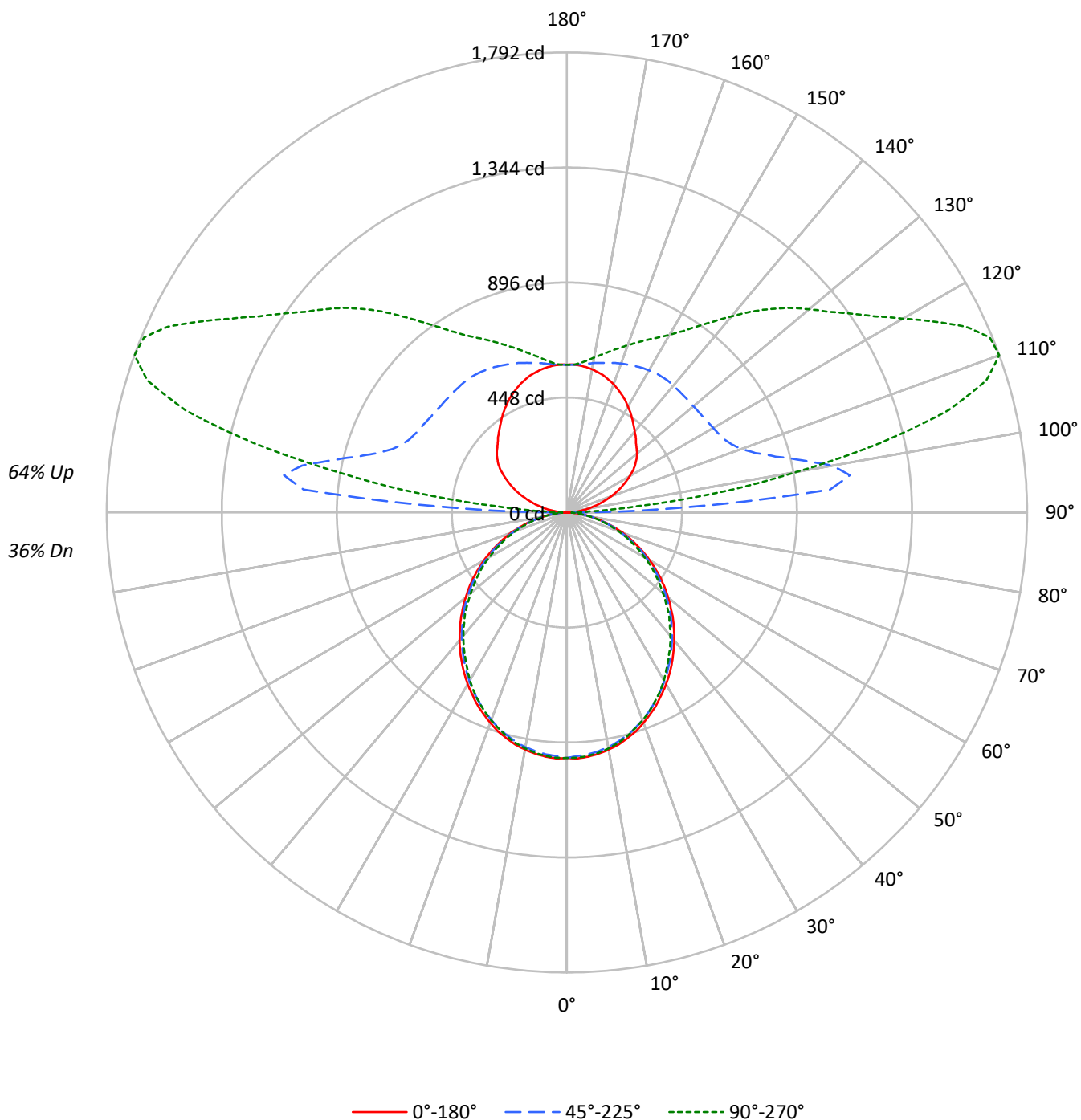
Lumens per Lamp: N/A
Luminaire Lumens: 6825.9 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
Input Voltage (V):
Input Current (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
RCR																	
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	95	90	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	34	32	31
3	79	69	62	56	71	63	57	52	51	47	43	40	37	35	30	28	26
4	72	61	54	48	65	56	49	44	45	40	37	36	32	30	27	25	23
5	66	54	47	41	59	50	43	38	41	35	31	32	28	26	24	22	20
6	61	49	41	35	55	45	38	33	36	31	27	29	25	22	22	19	17
7	56	44	36	31	51	40	33	28	33	28	24	26	22	20	20	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	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	1.3
10°-20°	254.9	3.7
20°-30°	376.3	5.5
30°-40°	439.0	6.4
40°-50°	440.9	6.5
50°-60°	387.1	5.7
60°-70°	288.3	4.2
70°-80°	164.6	2.4
80°-90°	49.9	0.7
90°-100°	433.7	6.4
100°-110°	900.8	13.2
110°-120°	841.4	12.3
120°-130°	680.8	10.0
130°-140°	547.0	8.0
140°-150°	412.9	6.0
150°-160°	290.7	4.3
160°-170°	171.4	2.5
170°-180°	55.7	0.8
0°-30°	721.4	10.6
0°-40°	1160.5	17.0
0°-60°	1988.5	29.1
0°-90°	2491.3	36.5
90°-120°	2175.9	31.9
90°-150°	3816.8	55.9
90°-180°	4335.0	63.5
0°-180°	6825.9	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	27	6
95°	38	113	1029	467	273	40
105°	131	183	842	1658	1538	138
115°	234	283	676	1457	1714	231
125°	325	381	648	1159	1350	289
135°	381	458	643	971	1122	296
145°	444	508	646	804	885	278
155°	506	545	629	711	742	233
165°	553	568	604	640	650	156
175°	575	575	579	586	584	55
180°	576	576	576	576	576	

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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	10.4	18.6	24.4	26.7
92.5°	17.4	95.2	463.3	123.6	85.9
95°	38.3	113.2	1028.8	466.8	272.9
97.5°	59.2	122.5	1111.2	843.0	598.0
100°	81.3	140.5	1048.5	1191.3	905.7
102.5°	105.7	160.8	938.2	1486.2	1249.4
105°	131.2	183.4	841.8	1657.5	1538.5
107.5°	155.6	207.2	769.8	1705.6	1712.7
110°	182.3	232.2	722.2	1659.8	1791.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.0	257.2	694.4	1564.1	1782.3
115°	234.5	282.7	675.8	1456.6	1713.8
117.5°	257.8	308.8	665.3	1359.1	1610.5
120°	281.0	333.8	658.4	1277.2	1510.6
122.5°	305.4	358.2	652.6	1211.6	1422.4
125°	325.1	380.8	647.9	1158.8	1350.4
127.5°	341.4	402.9	645.6	1113.5	1284.2
130°	356.5	423.8	643.3	1067.6	1232.0
132.5°	368.1	442.4	643.3	1018.3	1179.7
135°	380.8	458.0	643.3	971.3	1121.6
137.5°	397.1	472.6	644.4	922.0	1061.3
140°	411.0	484.8	645.6	876.6	997.4
142.5°	427.3	496.4	646.7	837.8	938.2
145°	443.5	508.0	645.6	804.1	884.8
147.5°	461.0	518.4	643.3	775.0	837.2
150°	476.1	527.8	639.8	751.2	798.9
152.5°	492.3	537.0	635.1	731.0	768.7
155°	506.3	544.6	629.3	711.2	742.0
157.5°	519.0	552.1	623.5	692.6	717.6
160°	531.8	557.9	617.7	674.0	693.2
162.5°	542.2	563.8	610.8	657.2	671.1
165°	552.7	567.8	603.8	640.4	650.2
167.5°	559.7	570.1	596.8	624.7	630.5
170°	566.6	573.0	591.0	609.6	613.1
172.5°	571.3	574.2	584.0	597.4	596.8
175°	574.8	574.8	579.4	586.4	584.0
177.5°	577.1	574.8	575.9	579.4	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)