

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: P1028029

Luminaire Tested: S125DIP-B610D1270UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028029
REPORT IS A COMBINATION OF REPORTS P1002208 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-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

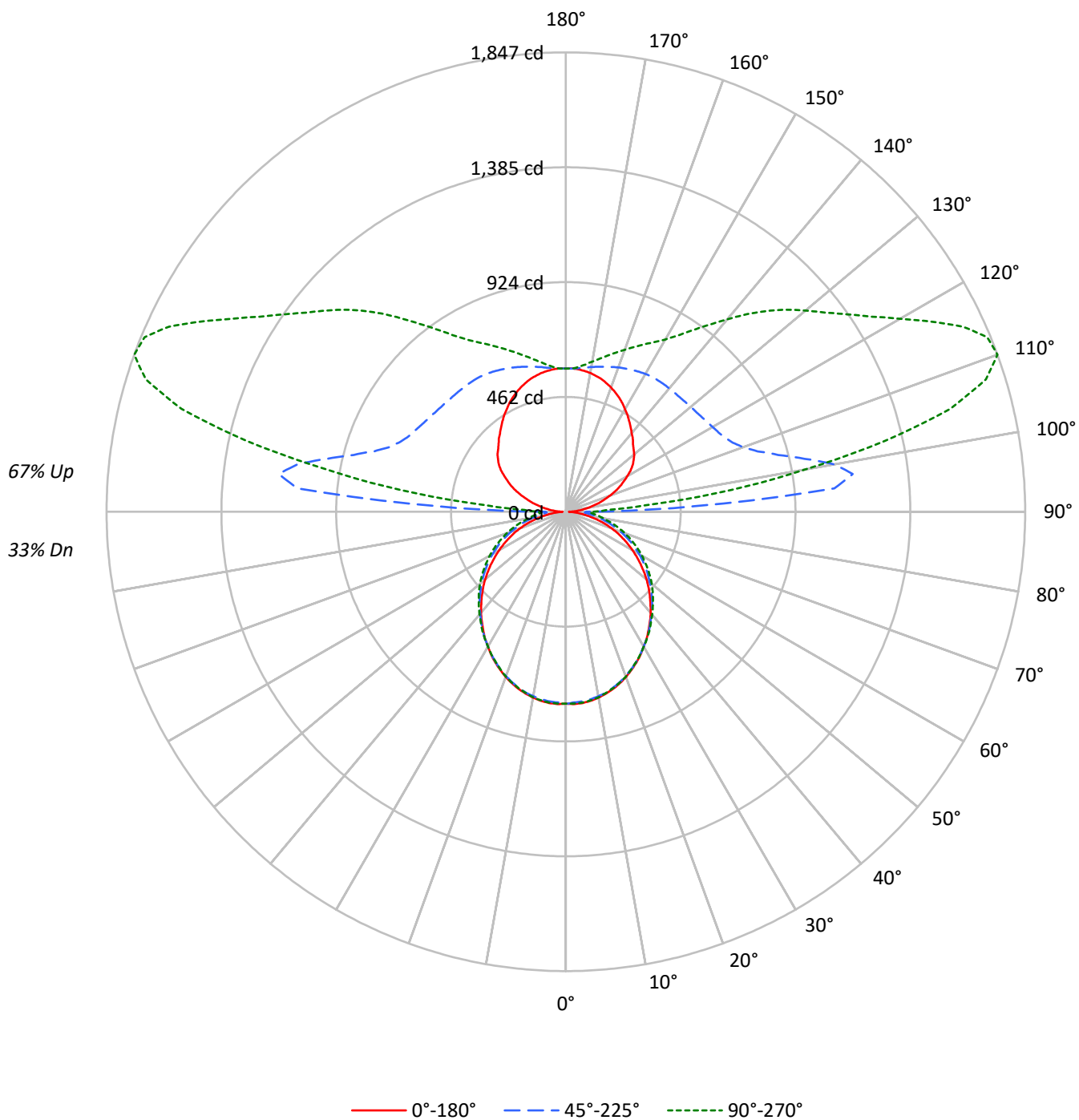
Lumens per Lamp: N/A
Luminaire Lumens: 6727.9 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	94	89	85	82	84	80	77	74	64	62	60	49	48	46	35	34	33
2	85	78	71	66	76	70	65	60	56	52	49	43	40	38	31	29	28
3	77	68	61	55	69	61	55	50	49	45	41	38	35	32	27	25	23
4	71	60	52	46	63	54	47	42	43	39	35	33	30	27	24	22	20
5	65	53	45	39	58	48	41	36	39	34	30	30	26	23	22	19	17
6	59	48	40	34	53	43	36	31	35	30	26	27	23	20	20	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	21	18	18	15	13
8	51	39	31	26	46	35	29	24	29	23	20	22	19	16	16	14	12
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	15	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

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	3.1
20°-30°	308.3	4.6
30°-40°	365.1	5.4
40°-50°	377.5	5.6
50°-60°	347.7	5.2
60°-70°	281.1	4.2
70°-80°	188.1	2.8
80°-90°	99.5	1.5
90°-100°	488.4	7.3
100°-110°	941.2	14.0
110°-120°	868.5	12.9
120°-130°	696.2	10.3
130°-140°	553.7	8.2
140°-150°	414.3	6.2
150°-160°	290.7	4.3
160°-170°	171.4	2.5
170°-180°	55.7	0.8
0°-30°	588.7	8.8
0°-40°	953.8	14.2
0°-60°	1679.1	25.0
0°-90°	2247.8	33.4
90°-120°	2298.1	34.2
90°-150°	3962.3	58.9
90°-180°	4480.0	66.6
0°-180°	6727.9	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	112	11
95°	48	143	1084	539	350	48
105°	138	202	883	1714	1600	146
115°	239	292	705	1500	1762	235
125°	328	383	665	1188	1384	291
135°	382	459	649	987	1141	297
145°	444	508	646	808	892	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°	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	103.8	111.5
92.5°	28.0	127.7	522.3	199.4	166.9
95°	48.1	142.7	1084.0	538.6	350.1
97.5°	68.3	149.7	1163.4	911.0	671.4
100°	89.6	164.7	1096.9	1255.6	974.6
102.5°	113.3	182.8	983.6	1546.7	1314.5
105°	138.0	202.4	883.4	1714.3	1600.5
107.5°	161.7	223.8	808.4	1759.4	1771.0
110°	187.6	246.6	757.8	1709.8	1846.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.3	269.3	726.9	1610.3	1833.8
115°	239.0	292.5	705.3	1499.8	1761.5
117.5°	261.6	316.5	691.8	1398.4	1655.1
120°	284.8	339.9	681.9	1313.5	1551.5
122.5°	308.4	362.0	673.0	1244.2	1459.5
125°	328.1	383.2	665.3	1188.3	1383.7
127.5°	343.7	404.4	660.0	1139.2	1314.5
130°	358.8	425.3	655.4	1090.4	1258.5
132.5°	369.6	443.9	652.4	1038.0	1202.4
135°	382.3	458.8	649.4	987.2	1141.3
137.5°	398.6	473.4	648.2	934.8	1077.2
140°	411.8	485.6	647.1	886.4	1010.3
142.5°	428.1	496.4	646.7	844.6	948.0
145°	444.3	508.0	645.6	807.9	891.6
147.5°	461.0	518.4	643.3	776.6	840.2
150°	476.1	527.8	639.8	751.2	799.7
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)