

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: P1027677

Luminaire Tested: S125DIP-B1270D610UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027677
REPORT IS A COMBINATION OF REPORTS P1001730 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB30-4F0-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

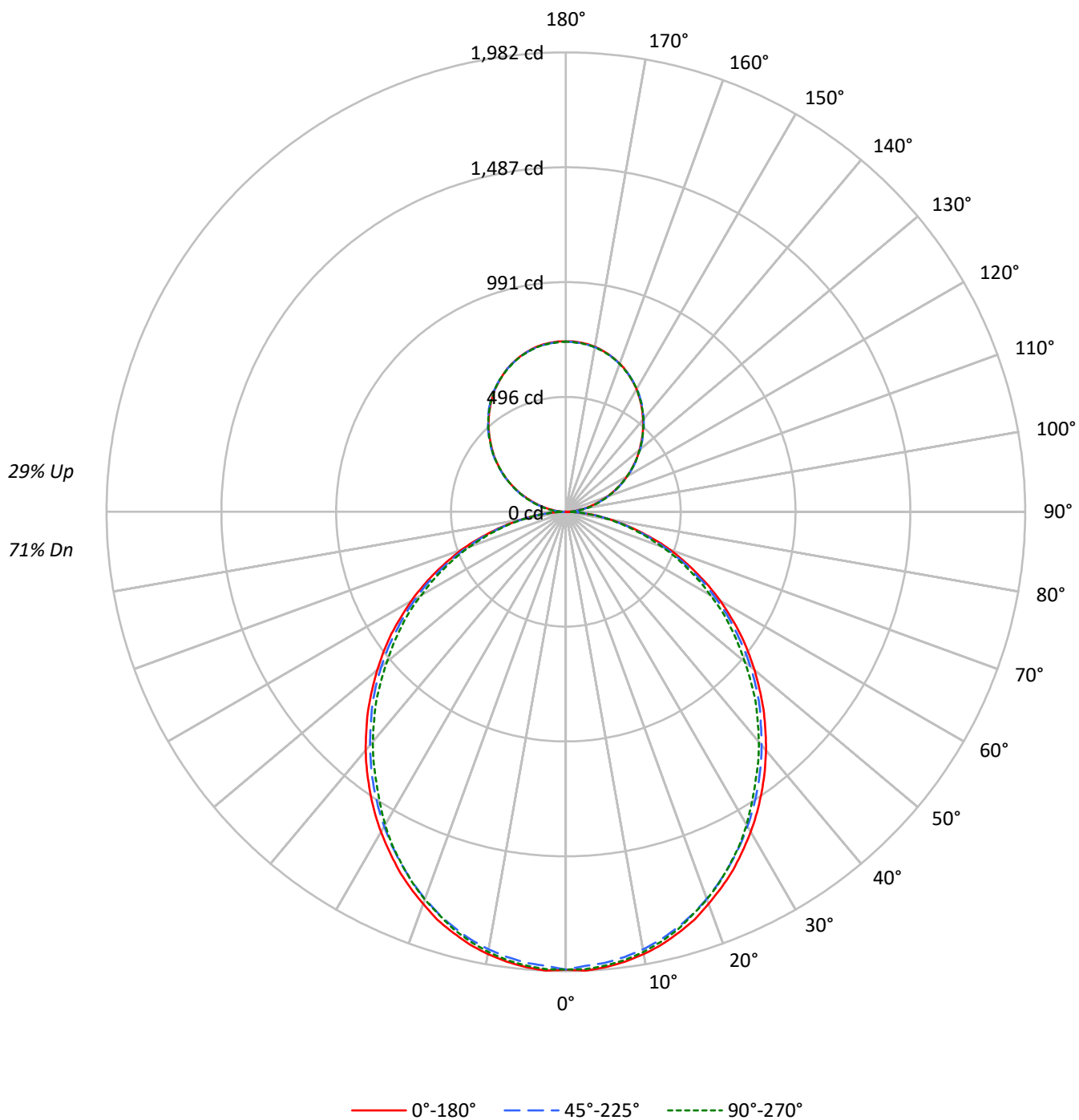
Lumens per Lamp: N/A
Luminaire Lumens: 7192.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76
1	103	98	94	90	97	93	89	86	84	81	78	75	73	71	67	65	64
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54
3	85	75	68	61	80	72	65	59	65	59	55	58	54	50	52	49	46
4	78	67	58	52	74	63	56	50	57	51	47	52	47	43	47	43	39
5	72	60	51	45	68	57	49	43	51	45	40	47	41	37	42	38	34
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	28	24
9	53	40	33	27	50	39	32	27	36	29	25	32	27	23	30	25	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12655	12655	12655
5°	12656	12362	12385
10°	12551	12078	12040
15°	12387	11739	11634
20°	12164	11346	11168
25°	11924	10918	10669
30°	11636	10471	10143
35°	11328	10003	9554
40°	11009	9508	9031
45°	10665	9026	8474
50°	10285	8479	7826
55°	9911	7875	7230
60°	9462	7239	6536
65°	8927	6503	5819
70°	8382	5657	4991
75°	7465	4658	4035
80°	6363	3480	2969
85°	4911	2057	1636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	2.6
10°-20°	526.5	7.3
20°-30°	777.2	10.8
30°-40°	906.8	12.6
40°-50°	910.8	12.7
50°-60°	799.5	11.1
60°-70°	595.5	8.3
70°-80°	340.1	4.7
80°-90°	99.3	1.4
90°-100°	48.8	0.7
100°-110°	145.1	2.0
110°-120°	246.1	3.4
120°-130°	323.9	4.5
130°-140°	363.0	5.0
140°-150°	355.8	4.9
150°-160°	298.9	4.2
160°-170°	198.7	2.8
170°-180°	69.5	1.0
0°-30°	1490.1	20.7
0°-40°	2396.9	33.3
0°-60°	4107.2	57.1
0°-90°	5142.1	71.5
90°-120°	440.0	6.1
90°-150°	1482.8	20.6
90°-180°	2050.0	28.5
0°-180°	7192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1972	1969	1953	1967	1966	187
15°	1880	1875	1858	1866	1866	530
25°	1706	1699	1678	1681	1677	785
35°	1474	1467	1446	1438	1425	922
45°	1206	1200	1181	1163	1158	929
55°	919	914	892	878	867	820
65°	620	617	600	586	580	615
75°	330	327	319	314	308	351
85°	86	88	88	86	83	94
90°	1	5	9	12	14	8
95°	37	38	44	48	49	39
105°	130	133	137	140	142	139
115°	246	249	250	249	249	244
125°	360	363	364	362	362	322
135°	468	471	472	472	469	360
145°	566	569	570	570	569	354
155°	648	648	649	651	648	299
165°	705	704	704	706	703	199
175°	733	730	730	734	730	70
180°	734	734	734	734	734	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1981.5	1976.8	1961.2	1976.8	1975.2
5°	1972.1	1969.0	1953.3	1967.4	1965.8
7.5°	1958.0	1954.9	1937.7	1951.8	1950.2
10°	1937.7	1934.6	1917.4	1929.9	1928.3
12.5°	1912.7	1906.5	1890.8	1900.2	1900.2
15°	1879.9	1875.2	1858.0	1865.8	1865.8
17.5°	1845.5	1837.7	1820.5	1829.9	1822.1
20°	1800.2	1797.1	1776.8	1787.7	1779.9
22.5°	1754.9	1748.6	1729.9	1736.1	1731.4
25°	1706.4	1698.6	1678.3	1681.4	1676.7
27.5°	1650.2	1645.5	1625.2	1626.7	1622.1
30°	1595.5	1590.8	1567.4	1564.2	1559.5
32.5°	1536.1	1528.3	1508.0	1501.7	1492.4
35°	1473.6	1467.3	1445.5	1437.7	1425.2
37.5°	1409.5	1401.7	1381.4	1370.5	1362.6
40°	1343.9	1336.1	1314.2	1300.1	1295.5
42.5°	1273.6	1267.3	1245.4	1232.9	1225.1
45°	1206.4	1200.1	1181.4	1162.6	1157.9
47.5°	1132.9	1134.5	1111.1	1092.3	1081.4
50°	1062.6	1057.9	1039.2	1018.9	1007.9
52.5°	990.7	987.6	967.3	950.1	937.6
55°	918.9	914.2	892.3	878.2	867.3
57.5°	842.3	840.7	822.0	803.2	798.5
60°	770.4	764.1	747.0	731.3	720.4
62.5°	695.4	690.7	676.6	659.4	651.6
65°	620.4	617.3	600.1	586.0	579.8
67.5°	546.9	540.7	528.2	515.7	512.6
70°	478.2	470.4	456.3	446.9	440.7
72.5°	403.2	398.5	390.7	379.7	373.5
75°	329.7	326.6	318.8	314.1	307.8
77.5°	261.0	259.4	254.7	251.6	246.9
80°	196.9	196.9	193.8	192.2	189.1
82.5°	140.6	137.5	137.5	134.4	134.4
85°	85.9	87.5	87.5	85.9	82.8
87.5°	42.2	42.2	40.6	40.6	37.5
90°	0.6	5.1	9.1	12.0	13.7
92.5°	17.1	20.0	25.1	29.2	30.3
95°	37.2	38.3	44.0	48.0	49.2
97.5°	57.2	57.7	65.7	69.2	69.7
100°	80.0	80.0	87.5	92.6	93.7
102.5°	104.6	107.5	110.3	116.0	117.7
105°	130.3	133.2	136.6	140.0	141.8
107.5°	158.3	161.2	164.0	165.8	165.8
110°	187.5	190.3	192.0	193.8	193.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.2	218.3	220.6	221.2	220.1
115°	246.3	248.6	249.8	249.2	248.6
117.5°	276.1	276.6	277.8	278.4	276.1
120°	303.5	306.4	306.9	306.9	304.6
122.5°	333.2	333.8	335.5	334.9	333.2
125°	359.5	363.0	363.5	362.4	361.8
127.5°	388.7	390.4	391.0	390.4	389.2
130°	414.4	417.2	418.4	417.8	416.7
132.5°	440.1	445.3	444.7	444.1	442.4
135°	467.5	471.0	471.5	471.5	469.3
137.5°	493.3	496.7	497.8	498.4	495.6
140°	517.8	520.7	522.4	523.6	520.7
142.5°	542.4	544.7	547.0	547.6	544.7
145°	566.4	568.7	570.4	570.4	568.7
147.5°	588.7	590.4	591.6	593.3	588.7
150°	611.0	610.4	612.7	612.7	611.6
152.5°	629.3	630.4	631.0	632.7	630.4
155°	648.2	648.2	648.7	651.0	648.2
157.5°	665.3	664.2	664.7	667.0	663.0
160°	680.2	678.5	679.0	681.3	678.5
162.5°	693.3	692.2	692.2	695.0	691.6
165°	704.8	703.6	704.2	706.5	703.0
167.5°	715.0	712.8	712.8	716.2	712.8
170°	723.0	720.8	720.8	724.2	720.2
172.5°	728.8	726.5	726.5	729.9	726.5
175°	732.8	730.5	730.5	733.9	729.9
177.5°	735.6	733.3	732.8	736.2	732.2
180°	734.5	734.5	734.5	734.5	734.5

(END OF REPORT)