

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: P1027695

Luminaire Tested: S125DIP-B1270D610UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027695
REPORT IS A COMBINATION OF REPORTS P1001748 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

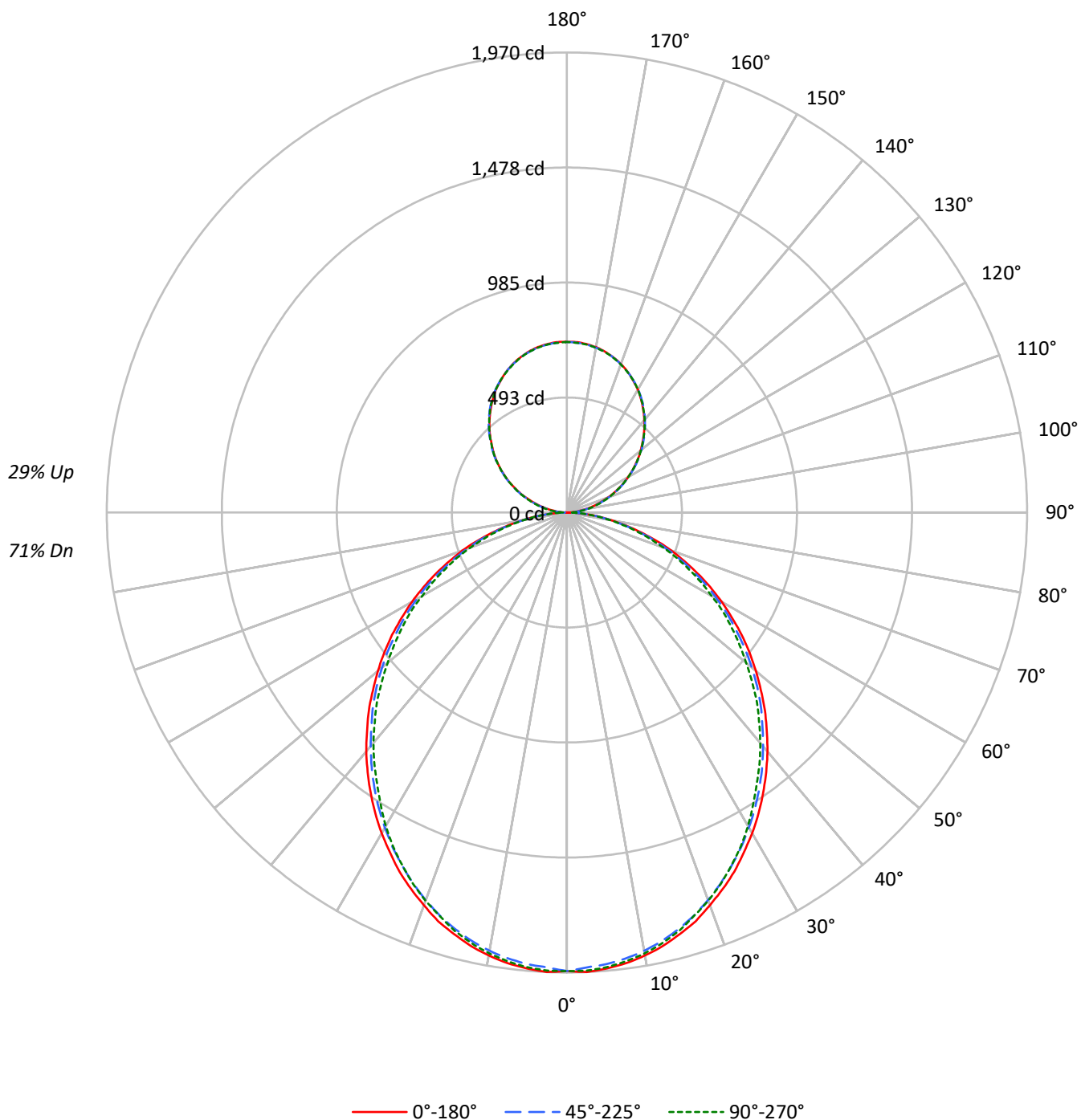
Lumens per Lamp: N/A
Luminaire Lumens: 7151.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
Input Voltage (V):
Input Current (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	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	35	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°	12582	12582	12582
5°	12582	12289	12313
10°	12478	12008	11970
15°	12314	11671	11566
20°	12093	11280	11103
25°	11855	10854	10607
30°	11568	10410	10084
35°	11262	9944	9498
40°	10945	9452	8978
45°	10602	8973	8425
50°	10225	8429	7780
55°	9852	7829	7187
60°	9407	7197	6498
65°	8875	6465	5785
70°	8333	5623	4961
75°	7422	4630	4011
80°	6324	3458	2951
85°	4883	2046	1626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10602 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	2.6
10°-20°	523.4	7.3
20°-30°	772.7	10.8
30°-40°	901.5	12.6
40°-50°	905.5	12.7
50°-60°	794.8	11.1
60°-70°	592.0	8.3
70°-80°	338.1	4.7
80°-90°	98.7	1.4
90°-100°	48.6	0.7
100°-110°	144.3	2.0
110°-120°	244.8	3.4
120°-130°	322.2	4.5
130°-140°	361.1	5.0
140°-150°	353.9	4.9
150°-160°	297.3	4.2
160°-170°	197.6	2.8
170°-180°	69.2	1.0
0°-30°	1481.4	20.7
0°-40°	2383.0	33.3
0°-60°	4083.2	57.1
0°-90°	5112.1	71.5
90°-120°	437.7	6.1
90°-150°	1474.8	20.6
90°-180°	2039.0	28.5
0°-180°	7151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1961	1958	1942	1956	1954	186
15°	1869	1864	1847	1855	1855	527
25°	1696	1689	1668	1672	1667	781
35°	1465	1459	1437	1429	1417	916
45°	1199	1193	1174	1156	1151	924
55°	914	909	887	873	862	815
65°	617	614	597	583	576	612
75°	328	325	317	312	306	349
85°	85	87	87	85	82	94
90°	1	5	9	12	14	8
95°	37	38	44	48	49	39
105°	130	132	136	139	141	138
115°	245	247	248	248	247	242
125°	358	361	362	360	360	320
135°	465	468	469	469	467	358
145°	563	566	567	567	566	352
155°	645	645	645	648	645	297
165°	701	700	700	703	699	198
175°	729	727	727	730	726	69
180°	730	730	730	730	730	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1969.9	1965.2	1949.7	1965.2	1963.7
5°	1960.6	1957.5	1941.9	1955.9	1954.4
7.5°	1946.6	1943.5	1926.4	1940.4	1938.8
10°	1926.4	1923.3	1906.2	1918.6	1917.1
12.5°	1901.5	1895.3	1879.8	1889.1	1889.1
15°	1868.9	1864.3	1847.2	1854.9	1854.9
17.5°	1834.7	1827.0	1809.9	1819.2	1811.4
20°	1789.7	1786.6	1766.4	1777.3	1769.5
22.5°	1744.6	1738.4	1719.8	1726.0	1721.3
25°	1696.5	1688.7	1668.5	1671.6	1667.0
27.5°	1640.6	1635.9	1615.7	1617.2	1612.6
30°	1586.2	1581.5	1558.2	1555.1	1550.4
32.5°	1527.1	1519.4	1499.2	1493.0	1483.6
35°	1465.0	1458.8	1437.0	1429.3	1416.8
37.5°	1401.3	1393.5	1373.3	1362.5	1354.7
40°	1336.1	1328.3	1306.5	1292.6	1287.9
42.5°	1266.1	1259.9	1238.2	1225.8	1218.0
45°	1199.3	1193.1	1174.5	1155.8	1151.2
47.5°	1126.3	1127.9	1104.6	1085.9	1075.1
50°	1056.4	1051.8	1033.1	1012.9	1002.0
52.5°	985.0	981.8	961.6	944.6	932.1
55°	913.5	908.8	887.1	873.1	862.2
57.5°	837.4	835.8	817.2	798.5	793.9
60°	765.9	759.7	742.6	727.1	716.2
62.5°	691.3	686.7	672.7	655.6	647.8
65°	616.8	613.7	596.6	582.6	576.4
67.5°	543.7	537.5	525.1	512.7	509.6
70°	475.4	467.6	453.6	444.3	438.1
72.5°	400.8	396.2	388.4	377.5	371.3
75°	327.8	324.7	316.9	312.3	306.0
77.5°	259.4	257.9	253.2	250.1	245.5
80°	195.7	195.7	192.6	191.1	188.0
82.5°	139.8	136.7	136.7	133.6	133.6
85°	85.4	87.0	87.0	85.4	82.3
87.5°	41.9	41.9	40.4	40.4	37.3
90°	0.6	5.1	9.1	11.9	13.6
92.5°	17.1	19.9	25.0	29.0	30.1
95°	37.0	38.1	43.8	47.8	48.9
97.5°	56.9	57.4	65.4	68.8	69.4
100°	79.6	79.6	87.0	92.1	93.2
102.5°	104.0	106.9	109.7	115.4	117.1
105°	129.6	132.5	135.9	139.3	141.0
107.5°	157.5	160.3	163.2	164.9	164.9
110°	186.5	189.3	191.0	192.7	192.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.0	217.2	219.4	220.0	218.9
115°	245.0	247.3	248.4	247.9	247.3
117.5°	274.6	275.2	276.3	276.9	274.6
120°	301.9	304.7	305.3	305.3	303.0
122.5°	331.4	332.0	333.7	333.1	331.4
125°	357.6	361.0	361.6	360.4	359.9
127.5°	386.6	388.3	388.9	388.3	387.2
130°	412.2	415.0	416.1	415.6	414.4
132.5°	437.8	442.9	442.3	441.7	440.0
135°	465.0	468.5	469.0	469.0	466.7
137.5°	490.6	494.0	495.2	495.7	492.9
140°	515.1	517.9	519.6	520.8	517.9
142.5°	539.5	541.8	544.1	544.6	541.8
145°	563.4	565.7	567.4	567.4	565.7
147.5°	585.6	587.3	588.4	590.1	585.6
150°	607.7	607.2	609.4	609.4	608.3
152.5°	625.9	627.1	627.6	629.3	627.1
155°	644.7	644.7	645.3	647.5	644.7
157.5°	661.7	660.6	661.2	663.5	659.5
160°	676.5	674.8	675.4	677.7	674.8
162.5°	689.6	688.5	688.5	691.3	687.9
165°	701.0	699.8	700.4	702.7	699.3
167.5°	711.2	708.9	708.9	712.3	708.9
170°	719.2	716.9	716.9	720.3	716.3
172.5°	724.8	722.6	722.6	726.0	722.6
175°	728.8	726.6	726.6	730.0	726.0
177.5°	731.7	729.4	728.8	732.2	728.3
180°	730.5	730.5	730.5	730.5	730.5

(END OF REPORT)