

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: P1028603

Luminaire Tested: S125RDIP-B1270D1270UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028603
REPORT IS A COMBINATION OF REPORTS P1005180 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D1270UB30-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

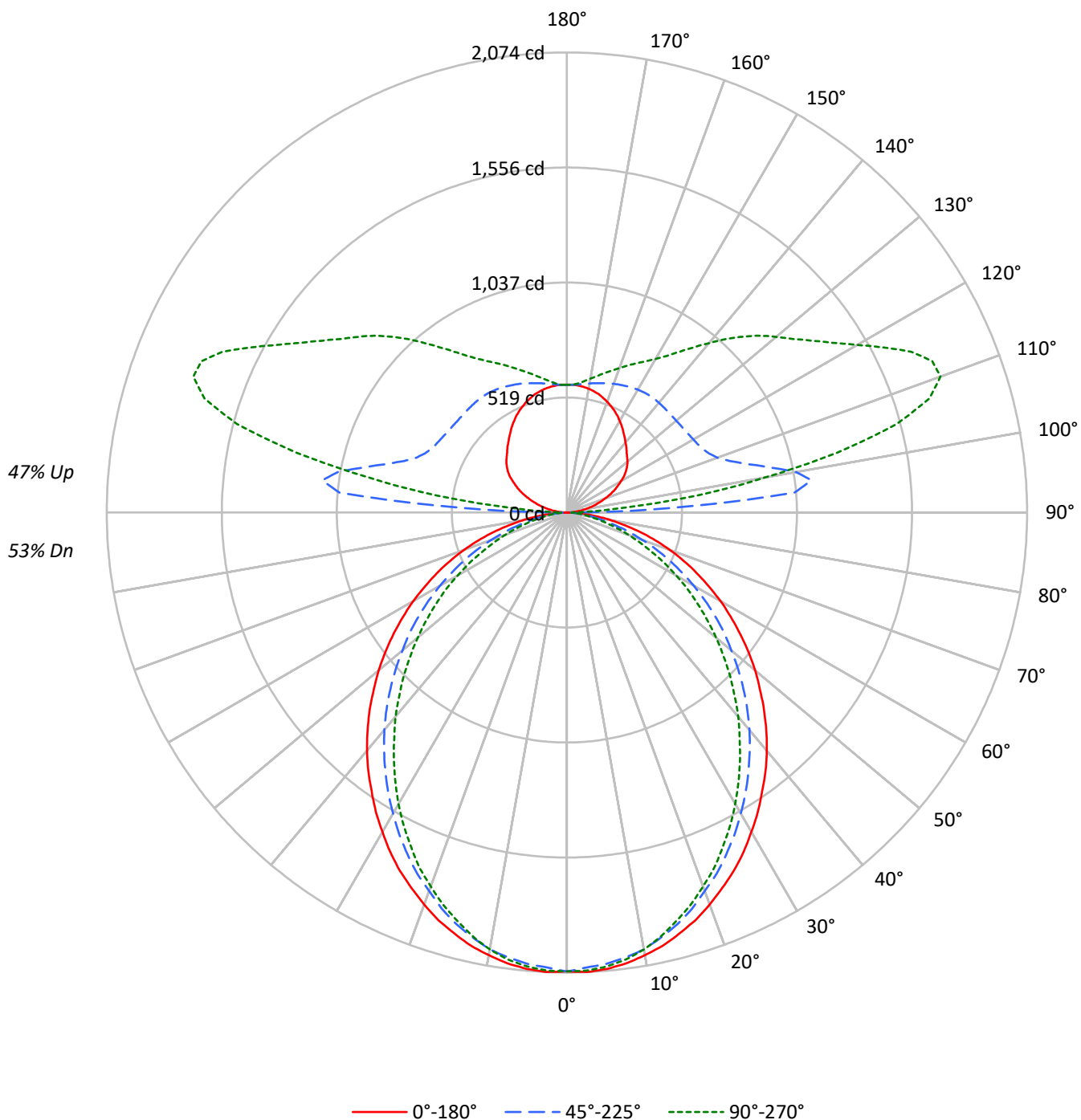
Lumens per Lamp: N/A
Luminaire Lumens: 9224.8 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	99	94	91	87	91	88	84	81	75	73	70	63	62	60	52	51	50
2	90	83	77	72	83	77	72	67	66	62	59	56	53	50	46	44	43
3	82	73	66	60	76	68	61	56	58	53	50	50	46	43	41	39	37
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	33	30	28
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24
7	59	47	39	33	55	44	37	32	38	33	28	33	28	25	28	24	22
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	32	26	47	37	30	25	32	27	23	28	23	20	24	20	18
10	48	36	29	24	44	34	27	23	30	24	20	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13256	13256	13256
5°	13257	12925	12946
10°	13128	12599	12488
15°	12942	12144	11887
20°	12712	11595	11256
25°	12448	11059	10579
30°	12125	10471	9869
35°	11796	9872	9114
40°	11482	9259	8377
45°	11106	8595	7605
50°	10724	7891	6819
55°	10281	7199	6005
60°	9826	6406	5161
65°	9285	5520	4250
70°	8656	4494	3344
75°	7785	3379	2437
80°	6563	2189	1644
85°	4911	1176	926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	2.1
10°-20°	544.2	5.9
20°-30°	789.0	8.6
30°-40°	898.9	9.7
40°-50°	876.2	9.5
50°-60°	737.4	8.0
60°-70°	516.7	5.6
70°-80°	264.9	2.9
80°-90°	68.4	0.7
90°-100°	433.7	4.7
100°-110°	900.8	9.8
110°-120°	841.4	9.1
120°-130°	680.8	7.4
130°-140°	547.0	5.9
140°-150°	412.9	4.5
150°-160°	290.7	3.2
160°-170°	171.4	1.9
170°-180°	55.7	0.6
0°-30°	1527.9	16.6
0°-40°	2426.8	26.3
0°-60°	4040.3	43.8
0°-90°	4890.3	53.0
90°-120°	2175.9	23.6
90°-150°	3816.8	41.4
90°-180°	4335.0	47.0
0°-180°	9224.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2069	2069	2069	2069	2069	
5°	2066	2060	2042	2058	2055	196
15°	1964	1955	1922	1920	1906	554
25°	1781	1758	1700	1680	1663	820
35°	1534	1497	1427	1381	1360	961
45°	1256	1211	1125	1063	1039	969
55°	953	903	816	745	720	852
65°	645	592	509	447	424	639
75°	344	297	231	197	186	363
85°	86	58	50	48	47	94
90°	1	10	19	24	27	8
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°	2068.9	2068.9	2068.9	2068.9	2068.9
2.5°	2073.6	2068.9	2053.2	2068.9	2067.3
5°	2065.7	2059.5	2042.3	2057.9	2054.8
7.5°	2050.1	2043.9	2023.6	2036.1	2032.9
10°	2026.7	2022.0	2000.1	2004.8	2000.1
12.5°	2000.1	1993.9	1962.6	1965.7	1957.9
15°	1964.2	1954.8	1922.0	1920.4	1906.4
17.5°	1926.7	1912.6	1873.5	1865.7	1854.8
20°	1881.4	1865.7	1815.7	1807.9	1793.9
22.5°	1831.4	1815.7	1762.6	1745.4	1734.5
25°	1781.4	1757.9	1700.1	1679.8	1662.6
27.5°	1725.1	1697.0	1636.0	1609.5	1592.3
30°	1662.6	1632.9	1567.3	1531.3	1517.3
32.5°	1601.7	1565.7	1498.5	1457.9	1439.1
35°	1534.5	1497.0	1426.6	1381.3	1359.5
37.5°	1470.4	1425.1	1353.2	1300.1	1278.2
40°	1401.6	1354.8	1279.8	1220.4	1201.6
42.5°	1329.8	1281.3	1203.2	1146.9	1117.3
45°	1256.3	1211.0	1125.1	1062.6	1039.1
47.5°	1179.8	1132.9	1046.9	982.9	956.3
50°	1107.9	1056.3	967.2	901.6	878.2
52.5°	1029.7	976.6	893.8	821.9	798.5
55°	953.2	903.2	815.7	745.4	720.4
57.5°	875.1	821.9	737.5	668.8	646.9
60°	800.0	745.4	661.0	592.2	568.8
62.5°	720.4	668.8	582.8	520.3	496.9
65°	645.3	592.2	509.4	446.9	423.5
67.5°	570.3	517.2	437.5	378.1	359.4
70°	493.8	440.7	362.5	314.1	295.3
72.5°	418.8	367.2	295.3	251.6	240.6
75°	343.8	296.9	231.3	196.9	185.9
77.5°	267.2	229.7	175.0	148.4	139.1
80°	203.1	165.6	121.9	107.8	104.7
82.5°	140.6	107.8	81.3	76.6	75.0
85°	85.9	57.8	50.0	48.4	46.9
87.5°	35.9	25.0	23.4	23.4	21.9
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)