

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: P1028572

Luminaire Tested: S125RDIP-B1270D1090UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028572
REPORT IS A COMBINATION OF REPORTS P1005139 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D1090UB30-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

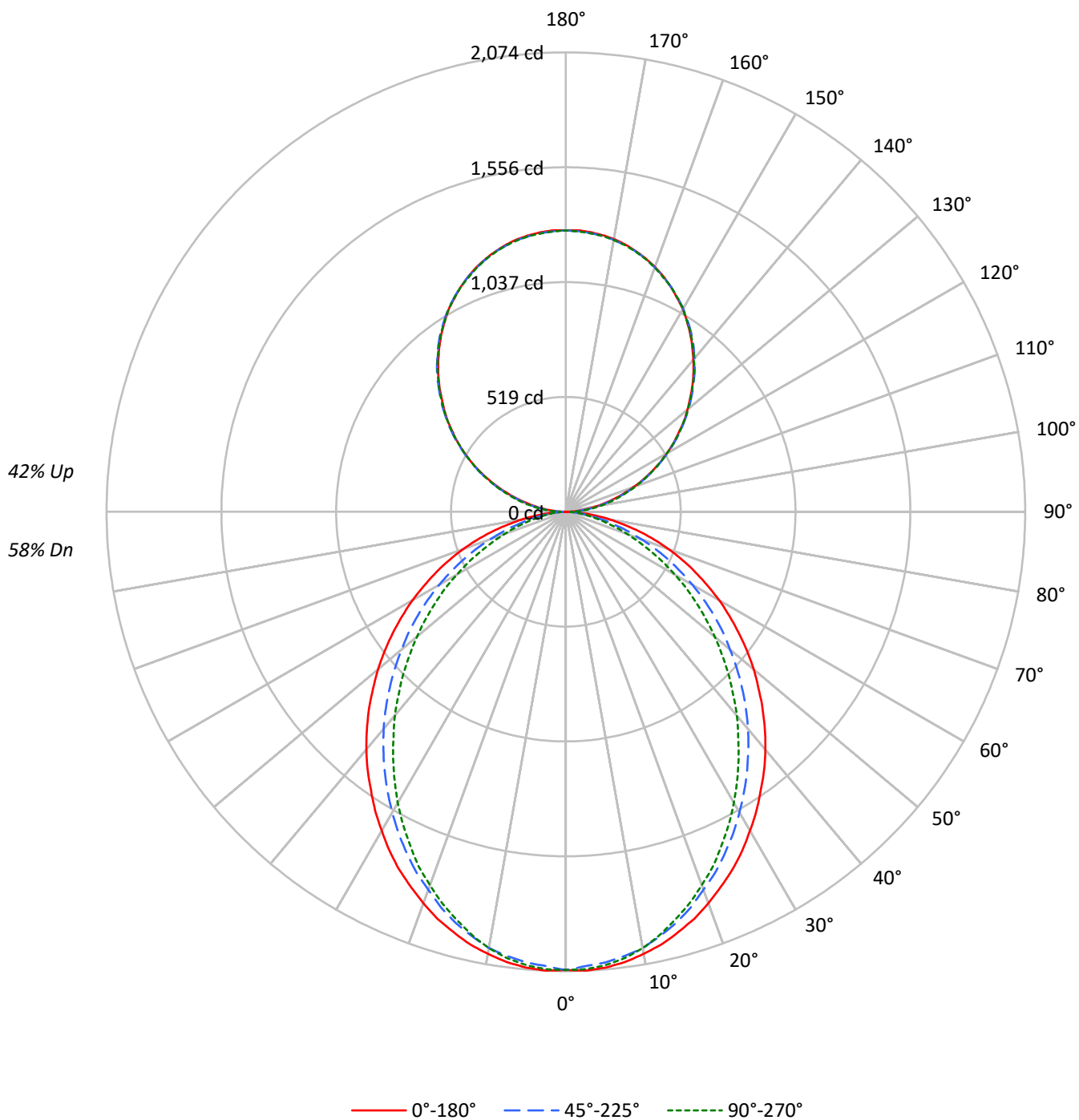
Lumens per Lamp: N/A
Luminaire Lumens: 8435.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	96	92	88	93	89	86	83	77	75	73	67	65	63	57	55	54
2	91	84	78	73	85	78	73	68	68	64	61	59	56	53	50	48	46
3	83	74	67	61	77	69	63	57	60	55	51	52	48	45	45	42	39
4	76	66	58	52	71	61	54	49	54	48	44	47	42	39	40	37	34
5	70	59	50	44	65	55	48	42	48	42	38	42	37	34	36	33	30
6	65	53	45	39	60	49	42	37	44	38	33	38	33	30	33	29	26
7	60	48	40	34	56	45	38	33	40	34	29	35	30	26	30	26	24
8	56	43	36	30	52	41	34	29	36	30	26	32	27	24	28	24	21
9	52	40	32	27	48	37	31	26	33	28	24	29	25	21	26	22	19
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17

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	2.3
10°-20°	544.2	6.5
20°-30°	789.0	9.4
30°-40°	898.9	10.7
40°-50°	876.2	10.4
50°-60°	737.4	8.7
60°-70°	516.7	6.1
70°-80°	264.9	3.1
80°-90°	68.0	0.8
90°-100°	84.5	1.0
100°-110°	250.9	3.0
110°-120°	425.6	5.0
120°-130°	560.2	6.6
130°-140°	627.8	7.4
140°-150°	615.3	7.3
150°-160°	516.9	6.1
160°-170°	343.6	4.1
170°-180°	120.2	1.4
0°-30°	1527.9	18.1
0°-40°	2426.8	28.8
0°-60°	4040.3	47.9
0°-90°	4890.0	58.0
90°-120°	761.0	9.0
90°-150°	2564.3	30.4
90°-180°	3545.0	42.0
0°-180°	8435.0	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	9	16	21	24	9
95°	64	66	76	83	85	67
105°	225	230	236	242	245	240
115°	426	430	432	431	430	421
125°	622	628	629	627	626	557
135°	809	814	816	816	812	623
145°	980	984	986	986	984	612
155°	1121	1121	1122	1126	1121	516
165°	1219	1217	1218	1222	1216	344
175°	1267	1263	1263	1269	1262	120
180°	1270	1270	1270	1270	1270	

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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°	1.0	8.9	15.8	20.8	23.7
92.5°	29.7	34.6	43.5	50.4	52.4
95°	64.3	66.2	76.1	83.0	85.0
97.5°	98.8	99.8	113.7	119.6	120.6
100°	138.4	138.4	151.2	160.1	162.1
102.5°	180.9	185.8	190.8	200.7	203.6
105°	225.4	230.3	236.2	242.2	245.1
107.5°	273.8	278.8	283.7	286.7	286.7
110°	324.2	329.2	332.1	335.1	334.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.6	377.6	381.6	382.5	380.6
115°	426.0	430.0	432.0	431.0	430.0
117.5°	477.4	478.4	480.4	481.4	477.4
120°	524.9	529.8	530.8	530.8	526.9
122.5°	576.3	577.3	580.2	579.3	576.3
125°	621.8	627.7	628.7	626.7	625.7
127.5°	672.2	675.1	676.1	675.1	673.2
130°	716.6	721.6	723.6	722.6	720.6
132.5°	761.1	770.0	769.0	768.1	765.1
135°	808.6	814.5	815.5	815.5	811.5
137.5°	853.1	859.0	861.0	862.0	857.0
140°	895.6	900.5	903.5	905.4	900.5
142.5°	938.1	942.0	946.0	947.0	942.0
145°	979.6	983.5	986.5	986.5	983.5
147.5°	1018.1	1021.1	1023.1	1026.0	1018.1
150°	1056.7	1055.7	1059.7	1059.7	1057.7
152.5°	1088.3	1090.3	1091.3	1094.2	1090.3
155°	1120.9	1120.9	1121.9	1125.9	1120.9
157.5°	1150.6	1148.6	1149.6	1153.6	1146.6
160°	1176.3	1173.3	1174.3	1178.3	1173.3
162.5°	1199.0	1197.1	1197.1	1202.0	1196.1
165°	1218.8	1216.8	1217.8	1221.8	1215.8
167.5°	1236.6	1232.6	1232.6	1238.6	1232.6
170°	1250.4	1246.5	1246.5	1252.4	1245.5
172.5°	1260.3	1256.4	1256.4	1262.3	1256.4
175°	1267.2	1263.3	1263.3	1269.2	1262.3
177.5°	1272.2	1268.2	1267.2	1273.2	1266.2
180°	1270.2	1270.2	1270.2	1270.2	1270.2

(END OF REPORT)