

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: P1028632

Luminaire Tested: S125RDIP-B1270D375UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028632
REPORT IS A COMBINATION OF REPORTS P1005219 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D375UB30-4F0-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

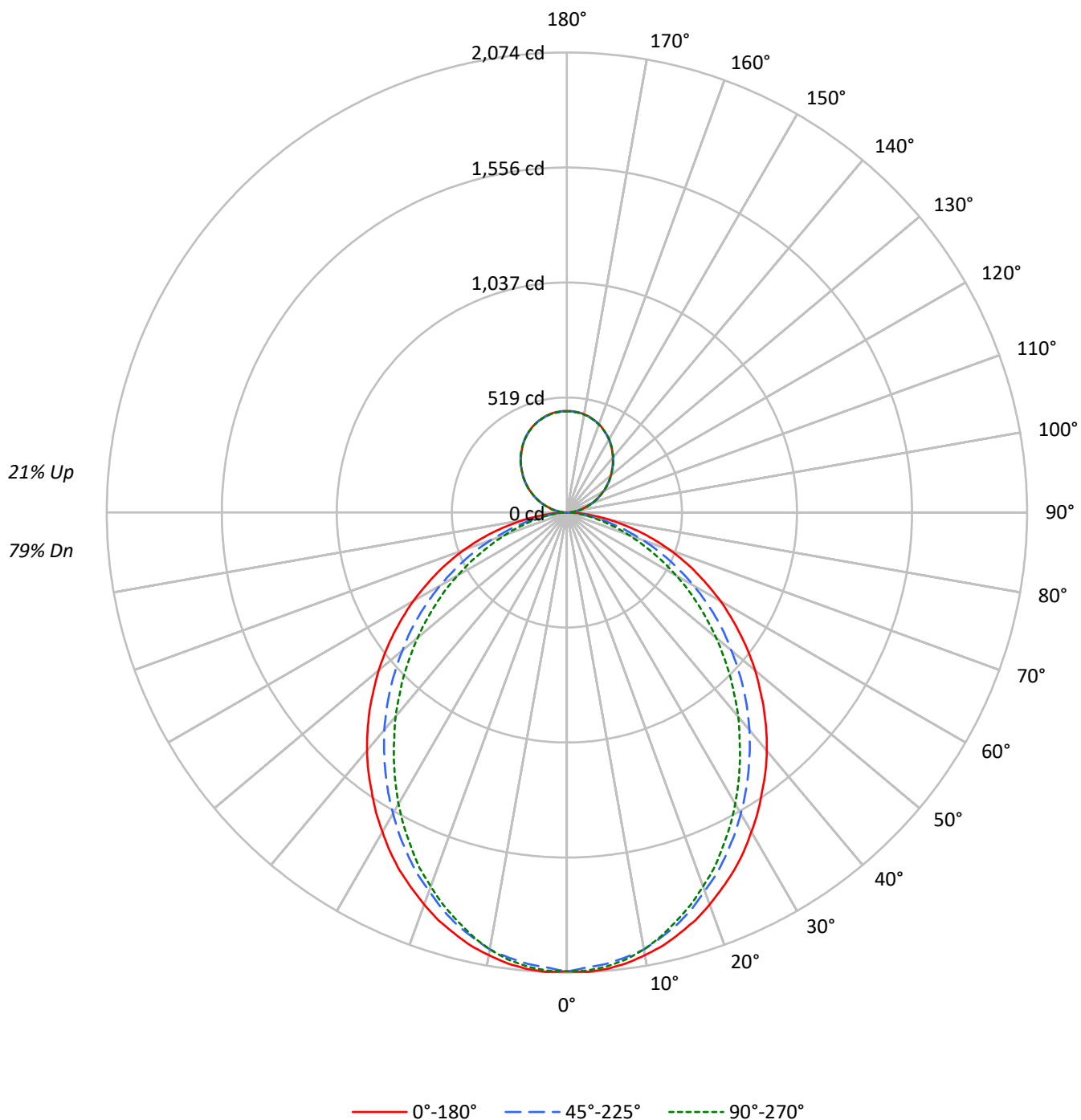
Lumens per Lamp: N/A
Luminaire Lumens: 6164.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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

TEST NUMBER: P1028632

CATALOG NUMBER: S125RDIP-B1270D375UB30-4F0-XX-W2A-F1

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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83
1	105	100	96	93	100	96	93	89	88	85	83	81	79	77	74	72	71
2	96	88	82	77	91	84	79	74	78	73	69	71	68	65	66	63	60
3	88	78	70	64	83	75	68	62	69	63	59	63	59	55	58	55	52
4	80	69	61	55	77	67	59	53	61	55	50	57	52	48	52	48	45
5	74	62	54	47	70	60	52	46	55	49	44	51	46	42	47	43	39
6	68	56	47	41	65	54	46	40	50	43	39	46	41	37	43	38	35
7	63	51	42	37	61	49	41	36	46	39	34	42	37	33	39	35	31
8	59	46	38	33	56	45	37	32	42	35	31	39	33	29	36	32	28
9	55	42	35	29	53	41	34	29	38	32	28	36	30	26	34	29	25
10	52	39	32	27	49	38	31	26	36	29	25	33	28	24	31	27	23

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

TEST NUMBER: P1028632

CATALOG NUMBER: S125RDIP-B1270D375UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	3.2
10°-20°	544.2	8.8
20°-30°	789.0	12.8
30°-40°	898.9	14.6
40°-50°	876.2	14.2
50°-60°	737.4	12.0
60°-70°	516.7	8.4
70°-80°	264.9	4.3
80°-90°	66.8	1.1
90°-100°	30.4	0.5
100°-110°	90.3	1.5
110°-120°	153.1	2.5
120°-130°	201.5	3.3
130°-140°	225.8	3.7
140°-150°	221.4	3.6
150°-160°	185.9	3.0
160°-170°	123.6	2.0
170°-180°	43.3	0.7
0°-30°	1527.9	24.8
0°-40°	2426.8	39.4
0°-60°	4040.3	65.5
0°-90°	4888.7	79.3
90°-120°	273.8	4.4
90°-150°	922.5	15.0
90°-180°	1275.0	20.7
0°-180°	6164.0	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°	0	3	6	8	8	6
95°	23	24	27	30	31	24
105°	81	83	85	87	88	86
115°	153	155	155	155	155	152
125°	224	226	226	225	225	200
135°	291	293	293	293	292	224
145°	352	354	355	355	354	220
155°	403	403	404	405	403	186
165°	438	438	438	440	437	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

TEST NUMBER: P1028632

CATALOG NUMBER: S125RDIP-B1270D375UB30-4F0-XX-W2A-F1

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°	0.4	3.2	5.7	7.5	8.5
92.5°	10.7	12.4	15.6	18.1	18.8
95°	23.1	23.8	27.4	29.9	30.6
97.5°	35.6	35.9	40.9	43.0	43.4
100°	49.8	49.8	54.4	57.6	58.3
102.5°	65.1	66.9	68.6	72.2	73.3
105°	81.1	82.9	85.0	87.1	88.2
107.5°	98.5	100.3	102.1	103.1	103.1
110°	116.6	118.4	119.5	120.5	120.2

TEST NUMBER: P1028632

CATALOG NUMBER: S125RDIP-B1270D375UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.1	135.8	137.3	137.6	136.9
115°	153.3	154.7	155.4	155.0	154.7
117.5°	171.8	172.1	172.8	173.2	171.8
120°	188.8	190.6	191.0	191.0	189.5
122.5°	207.3	207.7	208.7	208.4	207.3
125°	223.7	225.8	226.2	225.4	225.1
127.5°	241.8	242.9	243.2	242.9	242.2
130°	257.8	259.6	260.3	259.9	259.2
132.5°	273.8	277.0	276.7	276.3	275.2
135°	290.9	293.0	293.4	293.4	291.9
137.5°	306.9	309.0	309.7	310.1	308.3
140°	322.2	323.9	325.0	325.7	323.9
142.5°	337.5	338.9	340.3	340.7	338.9
145°	352.4	353.8	354.9	354.9	353.8
147.5°	366.3	367.3	368.0	369.1	366.3
150°	380.1	379.8	381.2	381.2	380.5
152.5°	391.5	392.2	392.6	393.6	392.2
155°	403.2	403.2	403.6	405.0	403.2
157.5°	413.9	413.2	413.6	415.0	412.5
160°	423.2	422.1	422.4	423.9	422.1
162.5°	431.3	430.6	430.6	432.4	430.3
165°	438.5	437.7	438.1	439.5	437.4
167.5°	444.9	443.4	443.4	445.6	443.4
170°	449.8	448.4	448.4	450.5	448.1
172.5°	453.4	452.0	452.0	454.1	452.0
175°	455.9	454.5	454.5	456.6	454.1
177.5°	457.7	456.2	455.9	458.0	455.5
180°	456.9	456.9	456.9	456.9	456.9

(END OF REPORT)