

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: P1035857

Luminaire Tested: S125RDIW-B1270D770UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035857
REPORT IS A COMBINATION OF REPORTS P1006339 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D770UB30-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

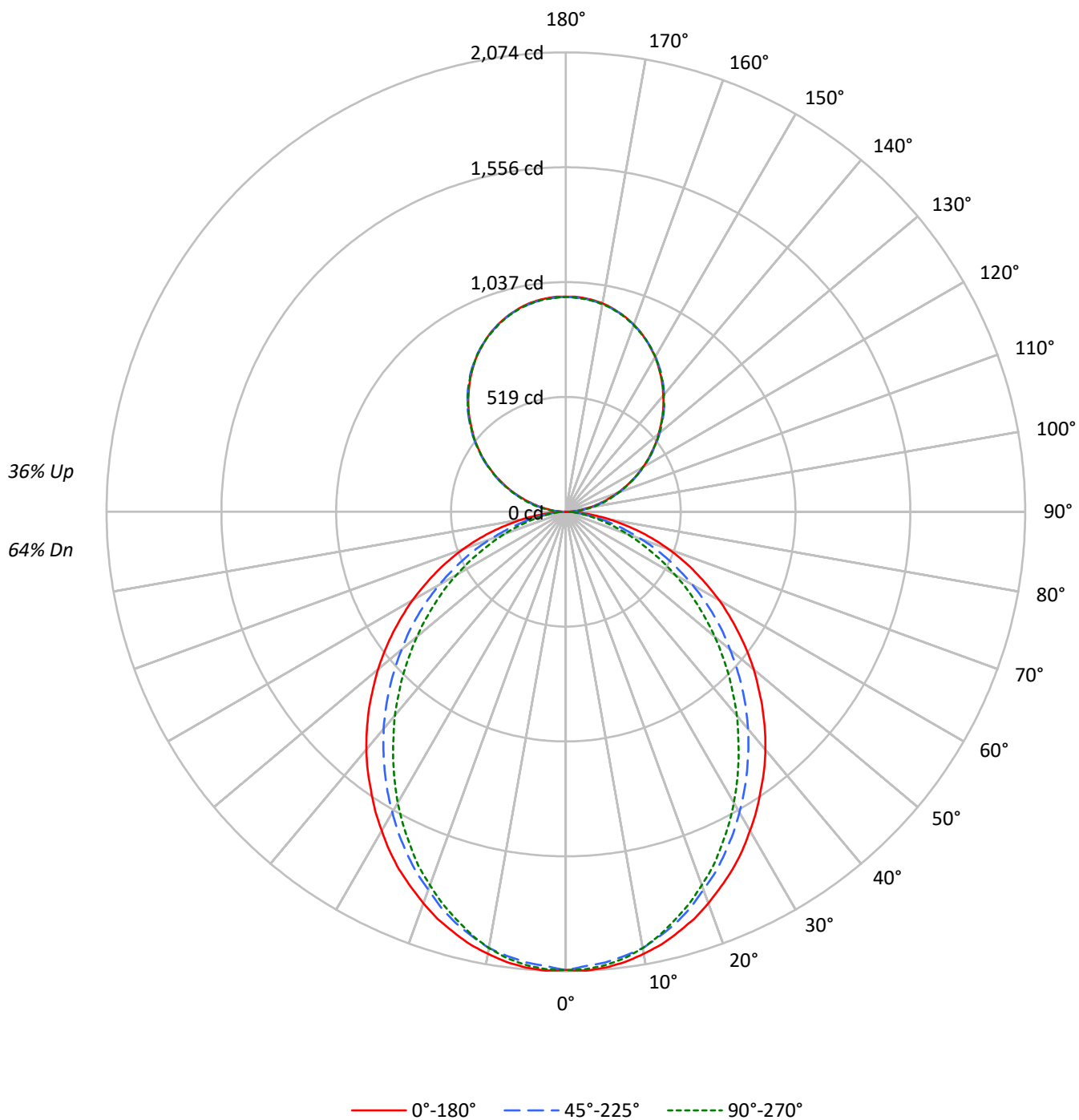
Lumens per Lamp: N/A
Luminaire Lumens: 7598.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 84.5
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59
2	92	85	79	74	87	80	75	70	71	67	63	63	59	57	55	52	50
3	85	75	68	62	79	71	64	59	63	58	53	56	52	48	49	46	43
4	78	67	59	53	73	63	56	50	56	50	46	50	45	42	44	40	37
5	71	60	51	45	67	56	49	43	50	44	40	45	40	36	39	36	33
6	66	54	45	40	62	51	43	38	45	39	35	41	36	32	36	32	29
7	61	49	40	35	57	46	39	34	41	35	31	37	32	28	33	29	26
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	30	26	23
9	53	40	33	28	50	39	32	27	35	29	25	31	26	23	28	24	21
10	50	37	30	25	47	36	29	24	32	26	23	29	24	21	26	22	19

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	2.6
10°-20°	544.2	7.2
20°-30°	789.0	10.4
30°-40°	898.9	11.8
40°-50°	876.2	11.5
50°-60°	737.4	9.7
60°-70°	516.7	6.8
70°-80°	264.9	3.5
80°-90°	67.6	0.9
90°-100°	64.5	0.8
100°-110°	191.7	2.5
110°-120°	325.1	4.3
120°-130°	428.0	5.6
130°-140°	479.7	6.3
140°-150°	470.1	6.2
150°-160°	394.9	5.2
160°-170°	262.5	3.5
170°-180°	91.9	1.2
0°-30°	1527.9	20.1
0°-40°	2426.8	31.9
0°-60°	4040.3	53.2
0°-90°	4889.5	64.4
90°-120°	581.4	7.7
90°-150°	1959.2	25.8
90°-180°	2708.0	35.6
0°-180°	7598.0	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	7	12	16	18	8
95°	49	51	58	63	65	51
105°	172	176	180	185	187	184
115°	326	328	330	329	328	322
125°	475	480	480	479	478	426
135°	618	622	623	623	620	476
145°	748	751	754	754	751	468
155°	856	856	857	860	856	394
165°	931	930	930	934	929	263
175°	968	965	965	970	964	92
180°	970	970	970	970	970	

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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°	0.8	6.8	12.1	15.9	18.1
92.5°	22.7	26.4	33.2	38.5	40.0
95°	49.1	50.6	58.2	63.4	64.9
97.5°	75.5	76.3	86.9	91.4	92.1
100°	105.7	105.7	115.5	122.3	123.9
102.5°	138.2	142.0	145.8	153.3	155.6
105°	172.2	176.0	180.5	185.0	187.3
107.5°	209.2	213.0	216.7	219.0	219.0
110°	247.7	251.5	253.8	256.0	255.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.0	288.5	291.5	292.3	290.8
115°	325.5	328.5	330.0	329.3	328.5
117.5°	364.8	365.5	367.0	367.8	364.8
120°	401.0	404.8	405.6	405.6	402.5
122.5°	440.3	441.1	443.3	442.6	440.3
125°	475.0	479.6	480.3	478.8	478.1
127.5°	513.6	515.8	516.6	515.8	514.3
130°	547.5	551.3	552.8	552.1	550.6
132.5°	581.5	588.3	587.6	586.8	584.5
135°	617.8	622.3	623.1	623.1	620.0
137.5°	651.8	656.3	657.8	658.6	654.8
140°	684.2	688.0	690.3	691.8	688.0
142.5°	716.7	719.7	722.8	723.5	719.7
145°	748.4	751.4	753.7	753.7	751.4
147.5°	777.9	780.1	781.7	783.9	777.9
150°	807.3	806.6	809.6	809.6	808.1
152.5°	831.5	833.0	833.8	836.0	833.0
155°	856.4	856.4	857.2	860.2	856.4
157.5°	879.1	877.6	878.3	881.3	876.1
160°	898.7	896.5	897.2	900.2	896.5
162.5°	916.1	914.6	914.6	918.4	913.8
165°	931.2	929.7	930.4	933.5	928.9
167.5°	944.8	941.8	941.8	946.3	941.8
170°	955.4	952.3	952.3	956.9	951.6
172.5°	962.9	959.9	959.9	964.4	959.9
175°	968.2	965.2	965.2	969.7	964.4
177.5°	972.0	969.0	968.2	972.7	967.4
180°	970.5	970.5	970.5	970.5	970.5

(END OF REPORT)