

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: P1028573

Luminaire Tested: S125RDIP-B1270D1090UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028573
REPORT IS A COMBINATION OF REPORTS P1005140 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-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

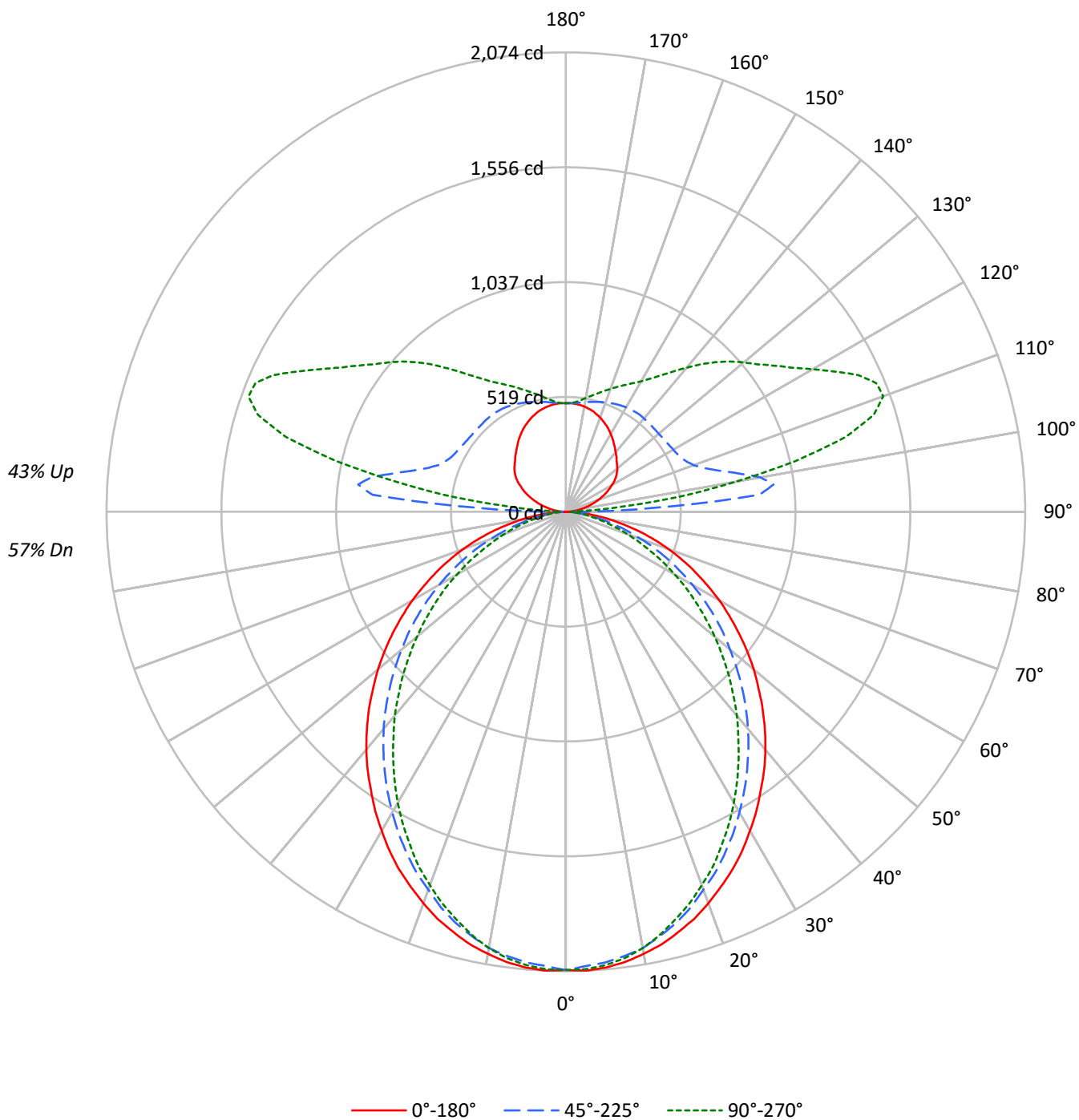
Lumens per Lamp: N/A
Luminaire Lumens: 8579.5 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	101	101	101	101	87	87	87	74	74	74	63	63	63
1	100	95	92	88	93	89	86	83	77	74	72	66	64	63	56	55	53
2	91	84	77	72	84	78	73	68	68	64	60	58	55	53	49	47	45
3	83	74	66	61	77	69	62	57	60	55	51	52	48	45	44	41	39
4	76	65	57	51	71	61	54	49	53	48	44	46	42	39	39	36	34
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	29
6	65	52	44	39	60	49	42	37	43	37	33	38	33	30	32	29	26
7	60	47	40	34	56	45	37	32	39	33	29	34	30	26	30	26	23
8	56	43	35	30	52	41	34	29	36	30	26	31	27	23	27	24	21
9	52	40	32	27	48	37	30	26	33	27	23	29	24	21	25	22	19
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	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	6.3
20°-30°	789.0	9.2
30°-40°	898.9	10.5
40°-50°	876.2	10.2
50°-60°	737.4	8.6
60°-70°	516.7	6.0
70°-80°	264.9	3.1
80°-90°	68.0	0.8
90°-100°	369.2	4.3
100°-110°	766.8	8.9
110°-120°	716.2	8.3
120°-130°	579.6	6.8
130°-140°	465.6	5.4
140°-150°	351.5	4.1
150°-160°	247.5	2.9
160°-170°	145.9	1.7
170°-180°	47.4	0.6
0°-30°	1527.9	17.8
0°-40°	2426.8	28.3
0°-60°	4040.3	47.1
0°-90°	4890.0	57.0
90°-120°	1852.2	21.6
90°-150°	3248.8	37.9
90°-180°	3690.0	43.0
0°-180°	8579.5	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	23	7
95°	33	96	876	397	232	34
105°	112	156	717	1411	1310	118
115°	200	241	575	1240	1459	197
125°	277	324	552	986	1150	246
135°	324	390	548	827	955	252
145°	378	432	550	684	753	237
155°	431	464	536	605	632	198
165°	470	483	514	545	554	133
175°	489	489	493	499	497	46
180°	490	490	490	490	490	

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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	22.7
92.5°	14.8	81.0	394.4	105.2	73.1
95°	32.6	96.4	875.7	397.3	232.3
97.5°	50.4	104.3	945.9	717.5	509.0
100°	69.2	119.6	892.5	1014.0	770.9
102.5°	89.9	136.9	798.6	1265.1	1063.5
105°	111.7	156.2	716.6	1410.8	1309.6
107.5°	132.4	176.4	655.3	1451.8	1457.8
110°	155.2	197.6	614.8	1412.8	1525.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.9	219.0	591.0	1331.3	1517.1
115°	199.6	240.6	575.2	1239.9	1458.8
117.5°	219.4	262.9	566.3	1156.9	1370.8
120°	239.2	284.2	560.4	1087.2	1285.8
122.5°	259.9	305.0	555.5	1031.4	1210.7
125°	276.7	324.2	551.5	986.4	1149.5
127.5°	290.6	343.0	549.5	947.8	1093.1
130°	303.4	360.8	547.5	908.8	1048.6
132.5°	313.3	376.5	547.5	866.8	1004.2
135°	324.2	389.9	547.5	826.8	954.7
137.5°	338.0	402.2	548.5	784.8	903.4
140°	349.9	412.6	549.5	746.2	849.0
142.5°	363.7	422.6	550.5	713.1	798.6
145°	377.6	432.4	549.5	684.4	753.1
147.5°	392.4	441.3	547.5	659.7	712.6
150°	405.2	449.2	544.6	639.5	680.0
152.5°	419.1	457.1	540.6	622.2	654.3
155°	430.9	463.6	535.7	605.3	631.6
157.5°	441.8	470.0	530.7	589.6	610.8
160°	452.7	475.0	525.8	573.8	590.0
162.5°	461.6	479.8	519.9	559.4	571.3
165°	470.5	483.3	513.9	545.0	553.5
167.5°	476.4	485.3	508.0	531.8	536.7
170°	482.3	487.8	503.1	518.9	521.8
172.5°	486.3	488.7	497.1	508.5	508.0
175°	489.2	489.2	493.2	499.1	497.1
177.5°	491.2	489.2	490.2	493.2	490.2
180°	490.2	490.2	490.2	490.2	490.2

(END OF REPORT)