

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: P1028631

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028631
REPORT IS A COMBINATION OF REPORTS P1005218 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-F
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

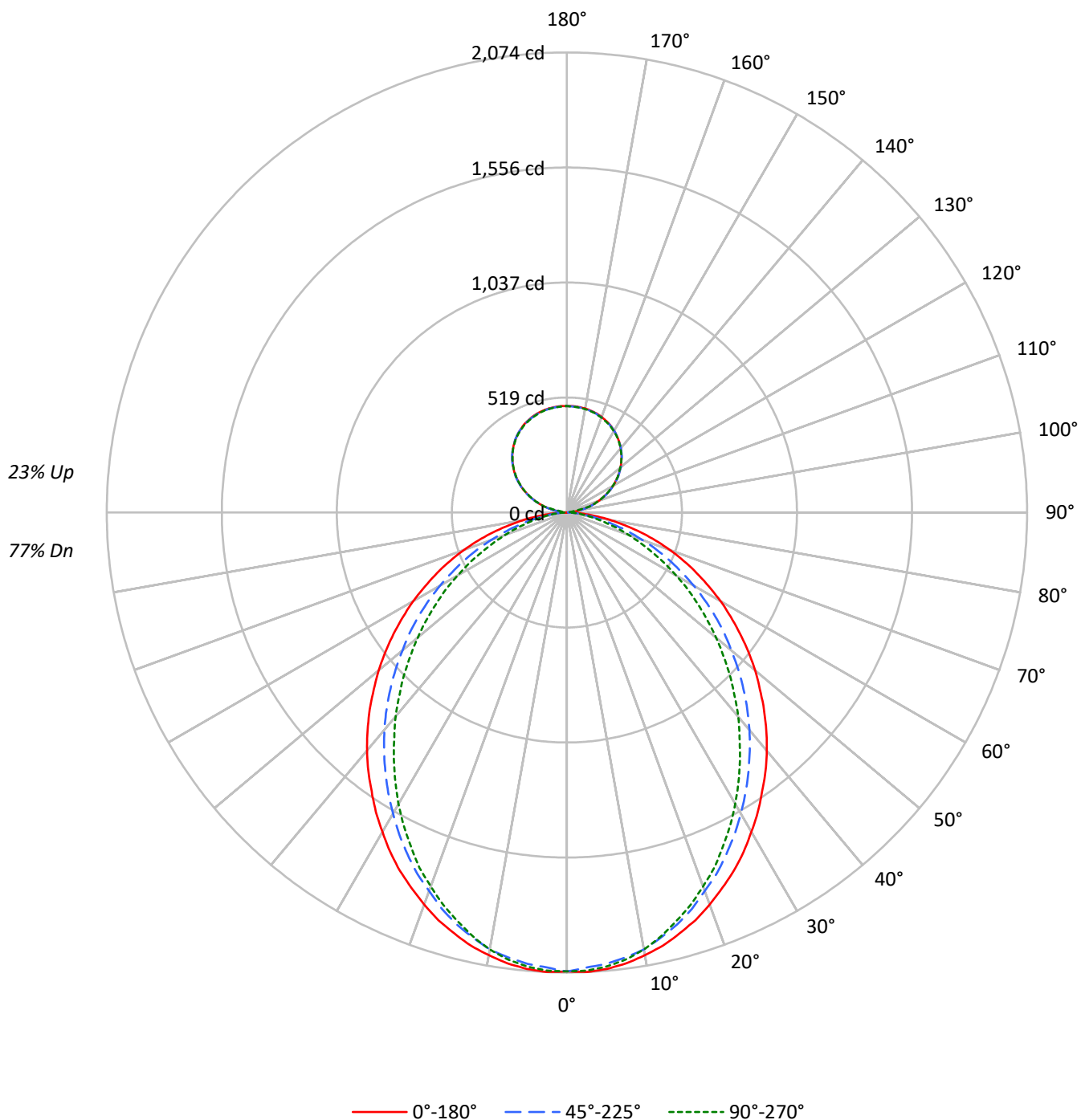
Lumens per Lamp: N/A
Luminaire Lumens: 6362.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69
2	95	88	81	76	90	84	78	73	77	72	68	70	66	63	64	61	59
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	53	50
4	80	69	61	54	76	66	59	53	61	54	50	56	51	47	51	47	44
5	74	62	53	47	70	59	51	46	54	48	43	50	45	41	46	42	38
6	68	56	47	41	65	53	46	40	49	43	38	45	40	36	42	37	34
7	63	50	42	36	60	48	41	35	45	38	34	42	36	32	38	34	30
8	59	46	38	32	56	44	37	32	41	35	30	38	33	29	35	31	27
9	55	42	34	29	52	41	33	29	38	32	27	35	30	26	33	28	25
10	51	39	31	26	49	38	31	26	35	29	25	33	27	24	30	26	22

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	3.1
10°-20°	544.2	8.6
20°-30°	789.0	12.4
30°-40°	898.9	14.1
40°-50°	876.2	13.8
50°-60°	737.4	11.6
60°-70°	516.7	8.1
70°-80°	264.9	4.2
80°-90°	66.8	1.0
90°-100°	16.3	0.3
100°-110°	108.2	1.7
110°-120°	194.9	3.1
120°-130°	250.2	3.9
130°-140°	269.1	4.2
140°-150°	252.6	4.0
150°-160°	204.3	3.2
160°-170°	132.1	2.1
170°-180°	45.6	0.7
0°-30°	1527.9	24.0
0°-40°	2426.8	38.1
0°-60°	4040.3	63.5
0°-90°	4888.7	76.8
90°-120°	319.5	5.0
90°-150°	1091.3	17.2
90°-180°	1473.0	23.2
0°-180°	6362.0	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°	20	19	6	8	8	25
105°	104	106	106	106	106	111
115°	196	198	198	197	195	195
125°	279	282	282	280	279	249
135°	348	350	350	349	347	268
145°	404	404	404	405	402	252
155°	444	442	443	444	441	205
165°	469	467	467	469	466	132
175°	480	478	478	481	478	46
180°	480	480	480	480	480	

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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°	0.4	3.2	5.7	7.5	8.5
92.5°	6.8	3.6	5.7	7.5	7.8
95°	20.3	19.2	5.7	7.5	7.5
97.5°	38.0	40.2	6.4	7.1	7.5
100°	59.4	60.4	61.9	8.9	7.5
102.5°	81.1	82.5	83.2	83.9	54.0
105°	104.5	105.9	105.9	105.9	105.6
107.5°	128.7	128.7	129.4	129.8	128.3
110°	152.2	152.2	152.9	151.8	152.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.2	175.3	175.6	174.2	173.5
115°	196.3	198.0	198.4	197.0	194.8
117.5°	219.4	219.4	220.8	218.7	217.9
120°	240.7	240.3	241.4	240.7	238.9
122.5°	259.5	261.3	261.7	261.0	258.8
125°	279.1	281.6	281.6	280.2	279.1
127.5°	297.9	299.7	299.4	298.7	295.8
130°	315.0	316.8	317.1	316.1	314.3
132.5°	332.1	334.2	333.1	333.1	331.4
135°	348.1	350.2	349.5	348.8	346.6
137.5°	363.0	365.1	364.4	364.4	362.6
140°	377.6	378.3	377.9	378.6	376.5
142.5°	390.7	391.1	391.8	391.8	389.7
145°	403.5	404.2	404.2	404.6	402.5
147.5°	414.9	414.9	415.3	415.6	413.1
150°	425.6	424.9	425.6	426.3	423.4
152.5°	435.9	434.1	434.8	435.5	433.0
155°	444.4	442.3	443.0	444.1	441.2
157.5°	451.2	450.1	450.1	451.2	448.3
160°	458.3	456.2	456.5	457.9	455.1
162.5°	464.0	461.8	462.2	464.3	461.1
165°	469.0	466.8	467.2	469.3	466.5
167.5°	472.9	470.7	471.1	473.6	470.4
170°	476.1	473.6	473.9	476.8	473.6
172.5°	478.2	475.7	476.4	478.9	475.7
175°	479.6	477.5	477.8	480.7	477.5
177.5°	480.7	478.6	478.9	481.4	478.6
180°	479.6	479.6	479.6	479.6	479.6

(END OF REPORT)