

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: P1028591

Luminaire Tested: S125RDIP-B1270D1090UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028591
REPORT IS A COMBINATION OF REPORTS P1005158 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D1090UB50-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

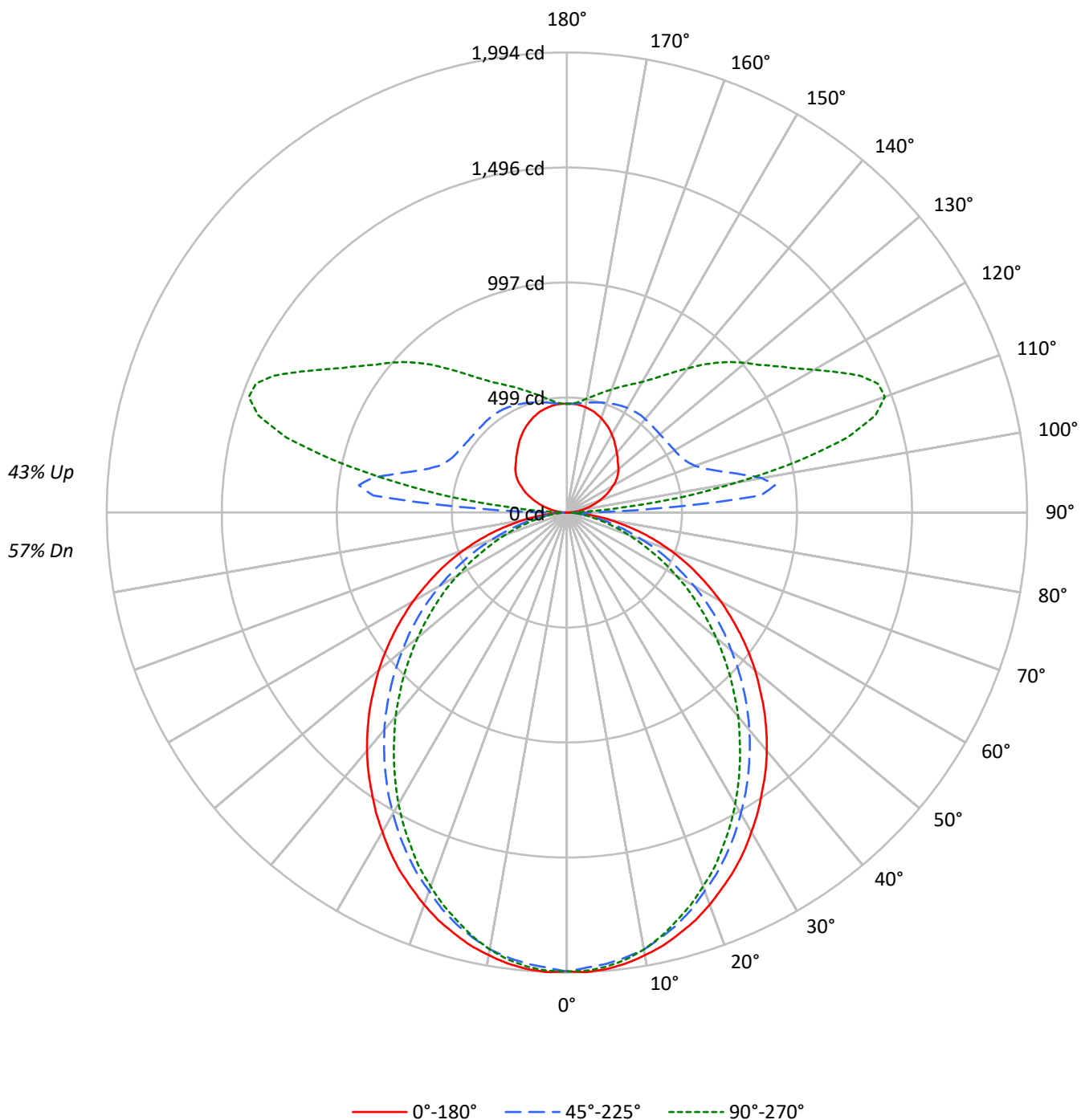
Lumens per Lamp: N/A
Luminaire Lumens: 8249.2 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	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°	12746	12746	12746
5°	12747	12428	12448
10°	12622	12115	12008
15°	12444	11677	11429
20°	12223	11149	10823
25°	11969	10634	10172
30°	11659	10068	9489
35°	11341	9493	8763
40°	11040	8902	8054
45°	10679	8265	7313
50°	10311	7588	6556
55°	9885	6922	5773
60°	9449	6160	4962
65°	8928	5308	4087
70°	8323	4322	3216
75°	7483	3249	2344
80°	6311	2104	1581
85°	4723	1131	891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10679 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.3
10°-20°	523.2	6.3
20°-30°	758.7	9.2
30°-40°	864.3	10.5
40°-50°	842.5	10.2
50°-60°	709.0	8.6
60°-70°	496.8	6.0
70°-80°	254.7	3.1
80°-90°	65.4	0.8
90°-100°	354.9	4.3
100°-110°	737.2	8.9
110°-120°	688.6	8.3
120°-130°	557.2	6.8
130°-140°	447.7	5.4
140°-150°	337.9	4.1
150°-160°	237.9	2.9
160°-170°	140.2	1.7
170°-180°	45.6	0.6
0°-30°	1469.1	17.8
0°-40°	2333.5	28.3
0°-60°	3884.9	47.1
0°-90°	4701.9	57.0
90°-120°	1780.8	21.6
90°-150°	3123.6	37.9
90°-180°	3547.0	43.0
0°-180°	8249.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1986	1980	1964	1979	1976	188
15°	1889	1880	1848	1847	1833	533
25°	1713	1690	1635	1615	1599	788
35°	1475	1439	1372	1328	1307	924
45°	1208	1164	1082	1022	999	932
55°	916	868	784	717	693	820
65°	620	569	490	430	407	614
75°	330	286	222	189	179	349
85°	83	56	48	47	45	90
90°	1	9	15	20	22	7
95°	31	93	842	382	223	33
105°	107	150	689	1356	1259	113
115°	192	231	553	1192	1403	189
125°	266	312	530	948	1105	236
135°	312	375	526	795	918	242
145°	363	416	528	658	724	228
155°	414	446	515	582	607	191
165°	452	465	494	524	532	127
175°	470	470	474	480	478	45
180°	471	471	471	471	471	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1989.3	1989.3	1989.3	1989.3	1989.3
2.5°	1993.8	1989.3	1974.3	1989.3	1987.8
5°	1986.3	1980.3	1963.8	1978.8	1975.8
7.5°	1971.3	1965.3	1945.7	1957.7	1954.7
10°	1948.7	1944.2	1923.2	1927.7	1923.2
12.5°	1923.2	1917.2	1887.1	1890.1	1882.6
15°	1888.6	1879.6	1848.1	1846.6	1833.0
17.5°	1852.6	1839.0	1801.5	1794.0	1783.5
20°	1809.0	1794.0	1745.9	1738.4	1724.9
22.5°	1760.9	1745.9	1694.8	1678.3	1667.8
25°	1712.8	1690.3	1634.7	1615.2	1598.6
27.5°	1658.7	1631.7	1573.1	1547.6	1531.0
30°	1598.6	1570.1	1507.0	1472.4	1458.9
32.5°	1540.1	1505.5	1440.9	1401.8	1383.8
35°	1475.4	1439.4	1371.8	1328.2	1307.2
37.5°	1413.8	1370.3	1301.2	1250.1	1229.0
40°	1347.7	1302.7	1230.5	1173.4	1155.4
42.5°	1278.6	1232.0	1156.9	1102.8	1074.3
45°	1208.0	1164.4	1081.8	1021.7	999.2
47.5°	1134.4	1089.3	1006.7	945.1	919.5
50°	1065.3	1015.7	930.0	866.9	844.4
52.5°	990.1	939.1	859.4	790.3	767.8
55°	916.5	868.4	784.3	716.7	692.6
57.5°	841.4	790.3	709.2	643.1	622.0
60°	769.3	716.7	635.6	569.4	546.9
62.5°	692.6	643.1	560.4	500.3	477.8
65°	620.5	569.4	489.8	429.7	407.2
67.5°	548.4	497.3	420.7	363.6	345.6
70°	474.8	423.7	348.6	302.0	284.0
72.5°	402.7	353.1	284.0	241.9	231.4
75°	330.5	285.5	222.4	189.3	178.8
77.5°	256.9	220.9	168.3	142.7	133.7
80°	195.3	159.3	117.2	103.7	100.7
82.5°	135.2	103.7	78.1	73.6	72.1
85°	82.6	55.6	48.1	46.6	45.1
87.5°	34.6	24.0	22.5	22.5	21.0
90°	1.0	8.6	15.2	20.0	21.9
92.5°	14.3	77.9	379.2	101.2	70.3
95°	31.4	92.6	841.9	382.0	223.3
97.5°	48.5	100.2	909.4	689.9	489.4
100°	66.5	115.0	858.1	975.0	741.2
102.5°	86.5	131.6	767.8	1216.4	1022.5
105°	107.4	150.1	688.9	1356.5	1259.1
107.5°	127.3	169.6	630.0	1395.9	1401.6
110°	149.2	190.0	591.1	1358.4	1466.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.0	210.5	568.3	1280.0	1458.6
115°	192.0	231.4	553.0	1192.1	1402.6
117.5°	211.0	252.8	544.5	1112.2	1318.0
120°	230.0	273.2	538.8	1045.3	1236.3
122.5°	249.9	293.2	534.0	991.6	1164.1
125°	266.1	311.6	530.2	948.4	1105.1
127.5°	279.4	329.8	528.3	911.3	1051.0
130°	291.7	346.8	526.4	873.8	1008.2
132.5°	301.2	362.0	526.4	833.4	965.5
135°	311.7	374.8	526.4	794.9	917.9
137.5°	325.0	386.8	527.4	754.5	868.5
140°	336.4	396.8	528.3	717.4	816.3
142.5°	349.7	406.2	529.3	685.6	767.8
145°	363.0	415.8	528.3	658.0	724.1
147.5°	377.3	424.3	526.4	634.3	685.1
150°	389.6	431.9	523.6	614.8	653.8
152.5°	402.9	439.5	519.8	598.2	629.1
155°	414.3	445.6	515.0	582.0	607.2
157.5°	424.8	451.8	510.3	566.8	587.3
160°	435.2	456.6	505.5	551.6	567.3
162.5°	443.8	461.4	499.8	537.8	549.2
165°	452.3	464.6	494.1	524.0	532.1
167.5°	458.0	466.6	488.4	511.2	516.0
170°	463.7	469.0	483.7	498.8	501.7
172.5°	467.5	469.9	478.0	488.9	488.4
175°	470.4	470.4	474.2	479.9	478.0
177.5°	472.3	470.4	471.3	474.2	471.3
180°	471.3	471.3	471.3	471.3	471.3

(END OF REPORT)