

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: P1038178

Luminaire Tested: S125R3DS-B850DB50-4F0-XX-W2A-F

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1038178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DS-B850DB50-4F0-XX-W2A-F
Description: Define 5 3in Regressed Direct Surface with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

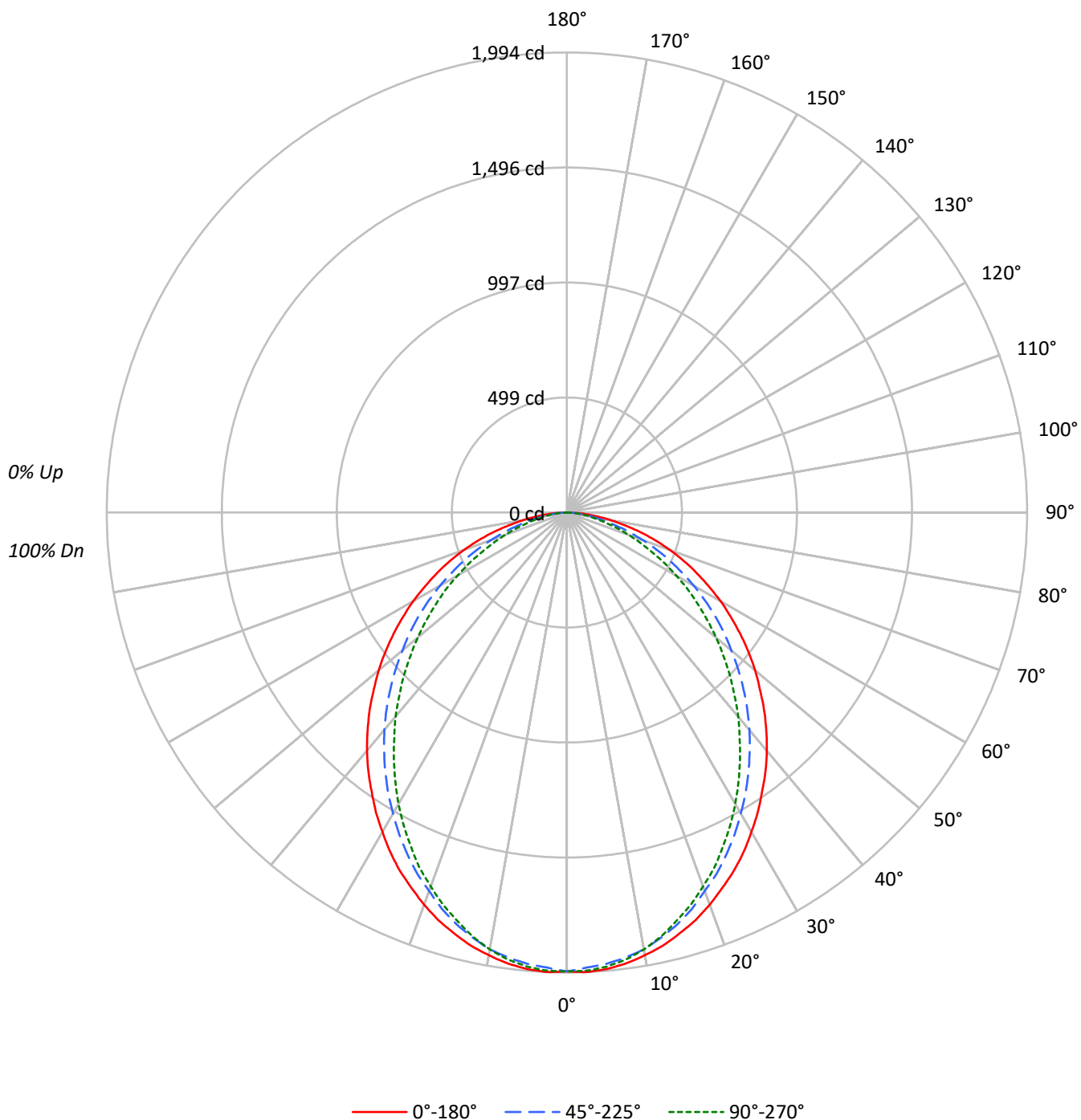
Lumens per Lamp: N/A
Luminaire Lumens: 4700.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.3
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	79	87	82	78		84	79	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		64
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	44		55	48	43		53
7	67	54	45	39	65	53	45	39	51	44	39		50	43	39		49
8	62	49	41	35	61	48	41	35	47	40	35		46	39	35		45
9	58	45	37	32	57	45	37	32	44	37	32		42	36	31		41
10	55	42	34	29	54	41	34	29	40	34	29		39	33	29		39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12746	12746	12746
5°	12775	12630	12707
10°	12678	12512	12512
15°	12527	12259	12158
20°	12334	11904	11761
25°	12109	11556	11301
30°	11827	11149	10793
35°	11540	10730	10224
40°	11272	10292	9664
45°	10946	9802	9054
50°	10619	9270	8417
55°	10238	8761	7737
60°	9858	8145	7008
65°	9407	7426	6173
70°	8894	6530	5320
75°	8182	5506	4426
80°	7206	4324	3716
85°	6072	3536	3315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10946 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	4.0
10°-20°	523.2	11.1
20°-30°	758.7	16.1
30°-40°	864.3	18.4
40°-50°	842.5	17.9
50°-60°	709.0	15.1
60°-70°	496.8	10.6
70°-80°	254.7	5.4
80°-90°	63.5	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1469.1	31.3
0°-40°	2333.5	49.6
0°-60°	3884.9	82.7
0°-90°	4700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4700.0	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	95
90°	0	0	0	0	0	

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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°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)