

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: P1004533

Luminaire Tested: S125DR-B1090DB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1004533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DR-B1090DB2750-4F0-XX-W2A-F_3000K
Description: Define 5 Direct Recessed with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

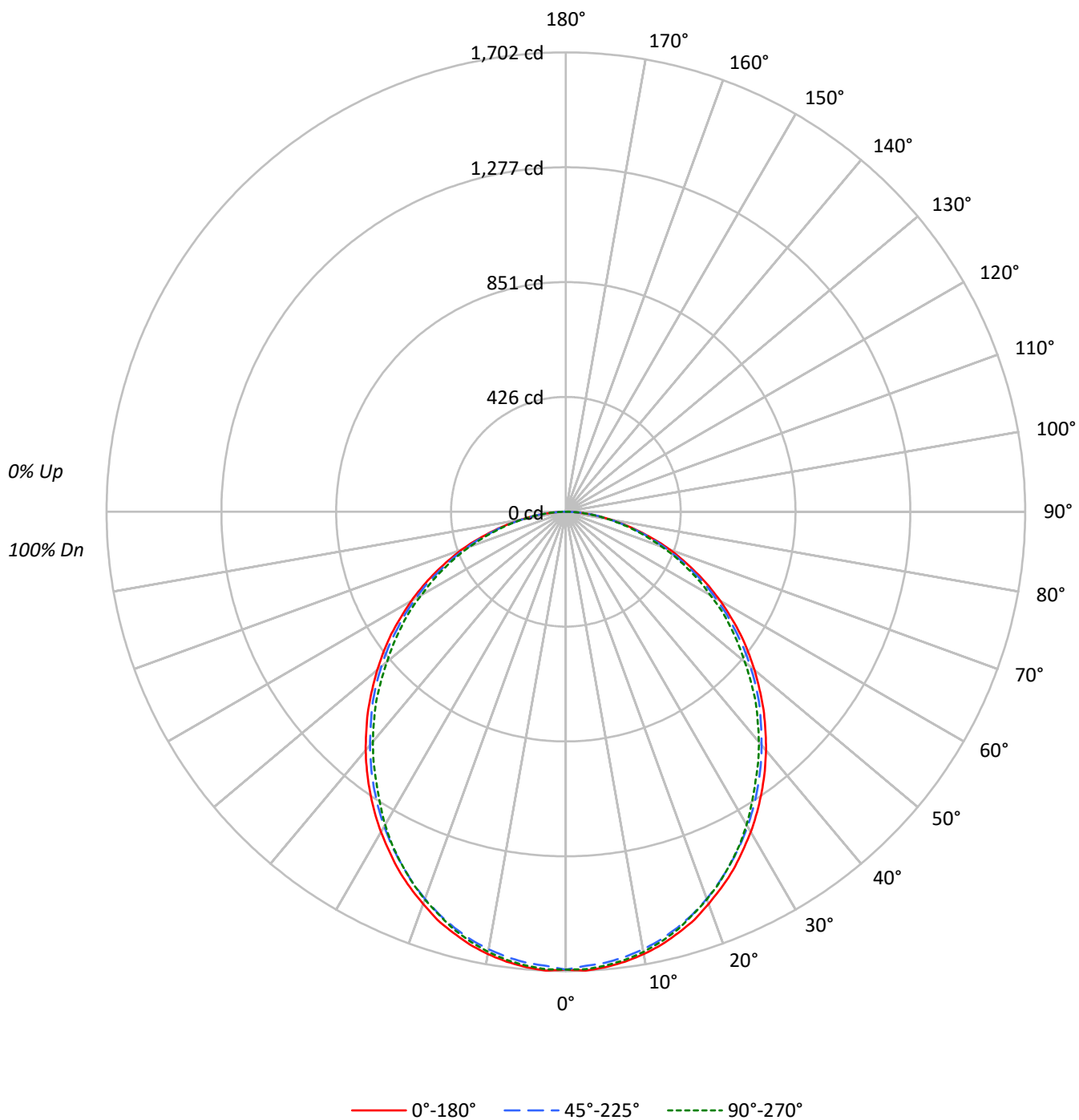
Lumens per Lamp: N/A
Luminaire Lumens: 4415.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90	88	86		84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	72		70
3	91	80	72	66	88	79	71	65	76	69	64		73	67	63		70	66	62		59
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53		51
5	76	64	55	48	74	63	54	48	60	53	47		58	52	47		57	51	46		44
6	71	57	49	42	69	56	48	42	55	47	42		53	46	41		51	46	41		39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36		34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33		31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	30		28
10	54	40	33	27	52	40	32	27	39	32	27		38	32	27		37	31	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10868	10868	10868
5°	10893	10789	10858
10°	10827	10713	10774
15°	10708	10584	10628
20°	10541	10403	10422
25°	10360	10189	10180
30°	10137	9958	9909
35°	9898	9709	9573
40°	9653	9439	9305
45°	9387	9192	9010
50°	9096	8895	8628
55°	8815	8560	8320
60°	8478	8220	7928
65°	8077	7812	7548
70°	7694	7341	7089
75°	7011	6778	6545
80°	6239	6140	5992
85°	5425	5528	5227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9387 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	3.6
10°-20°	452.1	10.2
20°-30°	667.5	15.1
30°-40°	778.8	17.6
40°-50°	782.2	17.7
50°-60°	686.6	15.6
60°-70°	511.4	11.6
70°-80°	292.1	6.6
80°-90°	84.3	1.9
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°	1279.7	29.0
0°-40°	2058.4	46.6
0°-60°	3527.2	79.9
0°-90°	4415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1694	1691	1678	1690	1688	161
15°	1614	1610	1596	1602	1602	455
25°	1466	1459	1441	1444	1440	674
35°	1266	1260	1241	1235	1224	792
45°	1036	1031	1014	998	994	798
55°	789	785	766	754	745	704
65°	533	530	515	503	498	528
75°	283	280	274	270	264	301
85°	74	75	75	74	71	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.3	1696.3	1696.3	1696.3	1696.3
2.5°	1701.6	1697.6	1684.2	1697.6	1696.3
5°	1693.6	1690.9	1677.5	1689.6	1688.2
7.5°	1681.5	1678.8	1664.1	1676.2	1674.8
10°	1664.1	1661.4	1646.6	1657.4	1656.0
12.5°	1642.6	1637.2	1623.8	1631.9	1631.9
15°	1614.4	1610.4	1595.6	1602.3	1602.3
17.5°	1584.9	1578.2	1563.4	1571.5	1564.8
20°	1546.0	1543.3	1525.8	1535.2	1528.5
22.5°	1507.1	1501.7	1485.6	1491.0	1486.9
25°	1465.5	1458.7	1441.3	1444.0	1440.0
27.5°	1417.1	1413.1	1395.7	1397.0	1393.0
30°	1370.2	1366.1	1346.0	1343.3	1339.3
32.5°	1319.2	1312.5	1295.0	1289.7	1281.6
35°	1265.5	1260.1	1241.3	1234.6	1223.9
37.5°	1210.5	1203.8	1186.3	1176.9	1170.2
40°	1154.1	1147.4	1128.6	1116.5	1112.5
42.5°	1093.7	1088.4	1069.6	1058.8	1052.1
45°	1036.0	1030.7	1014.5	998.4	994.4
47.5°	972.9	974.3	954.2	938.1	928.7
50°	912.6	908.5	892.4	875.0	865.6
52.5°	850.8	848.1	830.7	815.9	805.2
55°	789.1	785.1	766.3	754.2	744.8
57.5°	723.3	722.0	705.9	689.8	685.8
60°	661.6	656.2	641.5	628.1	618.7
62.5°	597.2	593.2	581.1	566.3	559.6
65°	532.8	530.1	515.3	503.2	497.9
67.5°	469.7	464.3	453.6	442.9	440.2
70°	410.7	403.9	391.9	383.8	378.4
72.5°	346.2	342.2	335.5	326.1	320.7
75°	283.2	280.5	273.8	269.7	264.4
77.5°	224.1	222.8	218.7	216.1	212.0
80°	169.1	169.1	166.4	165.1	162.4
82.5°	120.8	118.1	118.1	115.4	115.4
85°	73.8	75.2	75.2	73.8	71.1
87.5°	36.2	36.2	34.9	34.9	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)