

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: P1004532

Luminaire Tested: S125DR-B1090DB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1004532
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_2700K
Description: Define 5 Direct Recessed with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

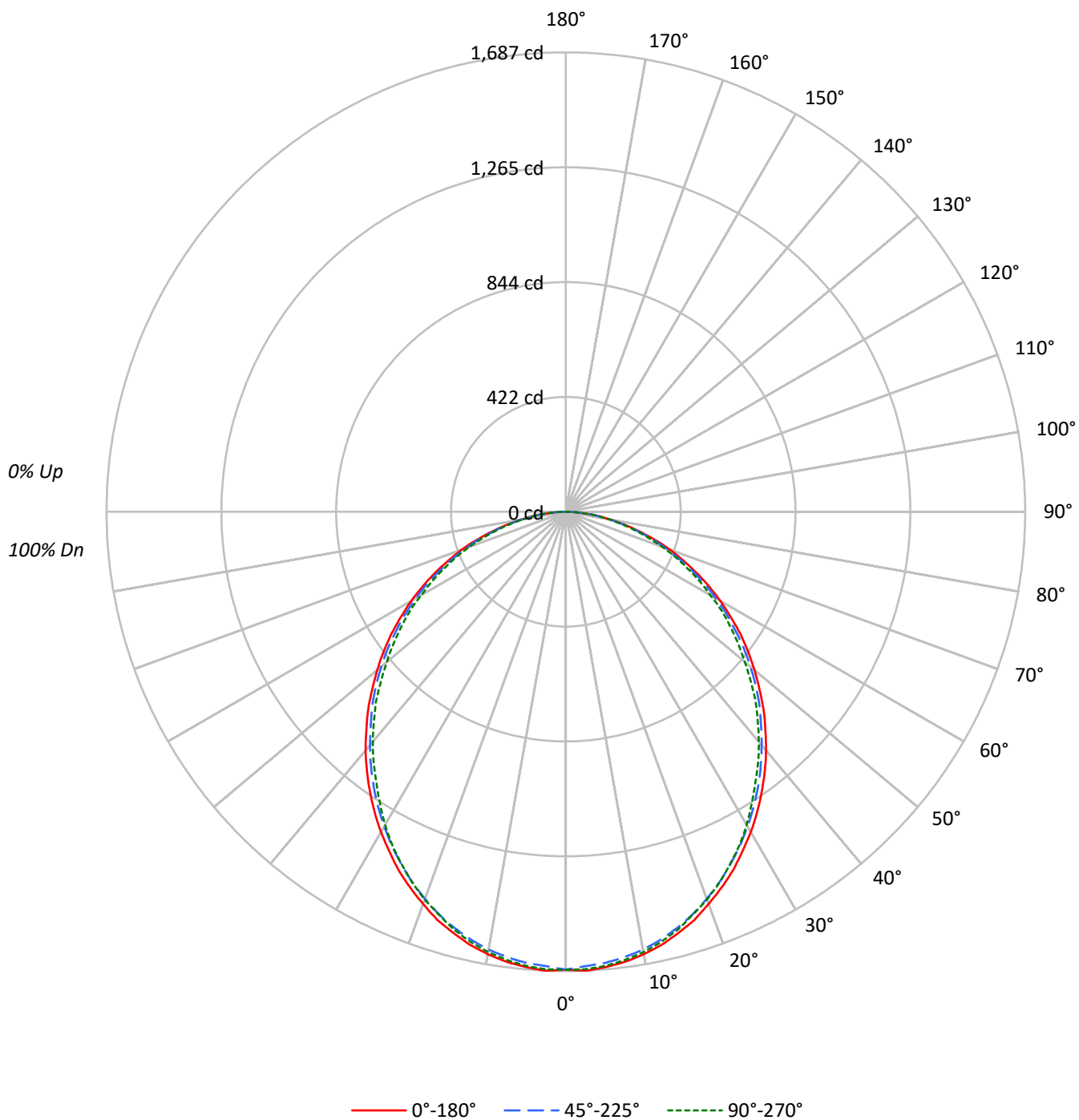
Lumens per Lamp: N/A
Luminaire Lumens: 4377.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
Input Voltage (V): 120
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				0			
RW	70	50	30	10	70	50	30	10	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°	10775	10775	10775
5°	10799	10696	10765
10°	10733	10621	10681
15°	10616	10493	10537
20°	10450	10314	10332
25°	10270	10102	10092
30°	10050	9872	9823
35°	9813	9626	9491
40°	9570	9358	9225
45°	9307	9114	8933
50°	9018	8818	8553
55°	8739	8486	8248
60°	8405	8150	7859
65°	8008	7745	7483
70°	7626	7278	7029
75°	6949	6719	6488
80°	6184	6088	5940
85°	5381	5477	5183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9307 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	3.6
10°-20°	448.2	10.2
20°-30°	661.7	15.1
30°-40°	772.1	17.6
40°-50°	775.4	17.7
50°-60°	680.7	15.6
60°-70°	507.0	11.6
70°-80°	289.6	6.6
80°-90°	83.6	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°	1268.7	29.0
0°-40°	2040.7	46.6
0°-60°	3496.8	79.9
0°-90°	4377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4377.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1679	1676	1663	1675	1674	159
15°	1600	1596	1582	1588	1588	451
25°	1453	1446	1429	1432	1428	668
35°	1255	1249	1231	1224	1213	785
45°	1027	1022	1006	990	986	791
55°	782	778	760	748	738	698
65°	528	526	511	499	494	524
75°	281	278	271	267	262	299
85°	73	74	74	73	70	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1687.0	1683.0	1669.7	1683.0	1681.7
5°	1679.0	1676.4	1663.1	1675.0	1673.7
7.5°	1667.0	1664.4	1649.7	1661.7	1660.4
10°	1649.7	1647.1	1632.5	1643.1	1641.8
12.5°	1628.5	1623.1	1609.8	1617.8	1617.8
15°	1600.5	1596.5	1581.9	1588.5	1588.5
17.5°	1571.3	1564.6	1550.0	1557.9	1551.3
20°	1532.7	1530.0	1512.7	1522.0	1515.4
22.5°	1494.1	1488.8	1472.8	1478.1	1474.1
25°	1452.8	1446.2	1428.9	1431.6	1427.6
27.5°	1404.9	1401.0	1383.7	1385.0	1381.0
30°	1358.4	1354.4	1334.4	1331.8	1327.8
32.5°	1307.8	1301.2	1283.9	1278.6	1270.6
35°	1254.6	1249.3	1230.7	1224.0	1213.4
37.5°	1200.1	1193.4	1176.1	1166.8	1160.1
40°	1144.2	1137.5	1118.9	1106.9	1102.9
42.5°	1084.3	1079.0	1060.4	1049.7	1043.1
45°	1027.1	1021.8	1005.8	989.8	985.9
47.5°	964.6	965.9	945.9	930.0	920.7
50°	904.7	900.7	884.7	867.4	858.1
52.5°	843.5	840.8	823.5	808.9	798.3
55°	782.3	778.3	759.7	747.7	738.4
57.5°	717.1	715.8	699.8	683.8	679.9
60°	655.9	650.6	636.0	622.6	613.3
62.5°	592.0	588.1	576.1	561.4	554.8
65°	528.2	525.5	510.9	498.9	493.6
67.5°	465.7	460.3	449.7	439.0	436.4
70°	407.1	400.5	388.5	380.5	375.2
72.5°	343.3	339.3	332.6	323.3	318.0
75°	280.7	278.1	271.4	267.4	262.1
77.5°	222.2	220.9	216.9	214.2	210.2
80°	167.6	167.6	165.0	163.6	161.0
82.5°	119.7	117.1	117.1	114.4	114.4
85°	73.2	74.5	74.5	73.2	70.5
87.5°	35.9	35.9	34.6	34.6	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)