

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: P1007132

Luminaire Tested: S125RDR-B1090DB30-4F0-XX-W2A-F

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007132
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: S125RDR-B1090DB30-4F0-XX-W2A-F
Description: Define 5 Regressed Direct Recessed with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

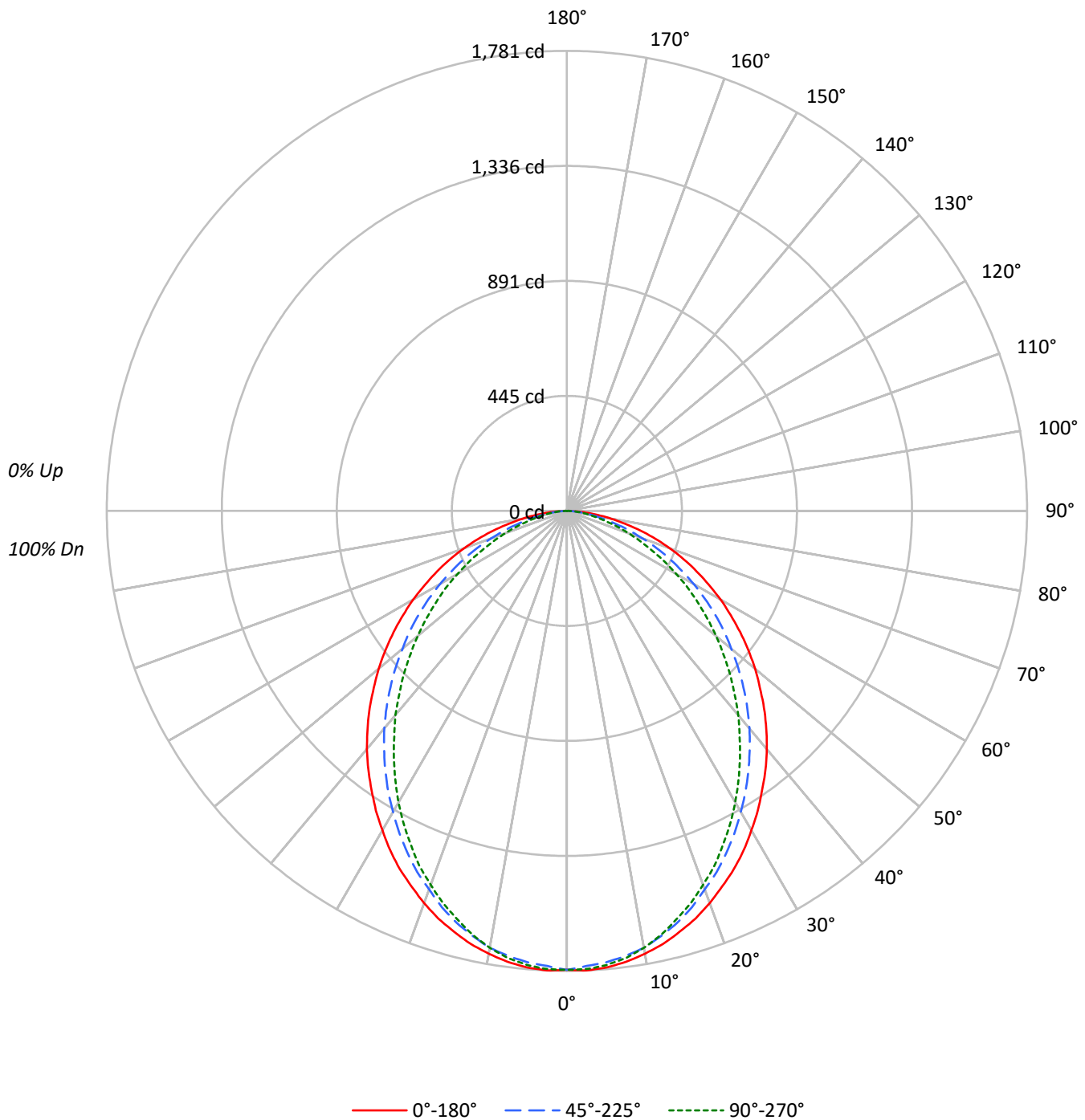
Lumens per Lamp: N/A
Luminaire Lumens: 4198.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	11384	11384	11384
5°	11410	11281	11350
10°	11324	11176	11176
15°	11189	10949	10860
20°	11017	10632	10504
25°	10816	10322	10094
30°	10564	9958	9641
35°	10308	9584	9132
40°	10068	9193	8632
45°	9777	8755	8086
50°	9484	8280	7518
55°	9144	7825	6911
60°	8805	7275	6260
65°	8403	6633	5514
70°	7945	5832	4751
75°	7308	4916	3953
80°	6439	3863	3317
85°	5425	3154	2963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9777 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	4.0
10°-20°	467.3	11.1
20°-30°	677.6	16.1
30°-40°	772.0	18.4
40°-50°	752.5	17.9
50°-60°	633.3	15.1
60°-70°	443.8	10.6
70°-80°	227.5	5.4
80°-90°	56.7	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°	1312.2	31.3
0°-40°	2084.2	49.6
0°-60°	3470.0	82.7
0°-90°	4198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1774	1769	1754	1767	1765	168
15°	1687	1679	1651	1649	1637	476
25°	1530	1510	1460	1443	1428	704
35°	1318	1286	1225	1186	1168	825
45°	1079	1040	966	913	892	832
55°	819	776	700	640	619	732
65°	554	509	438	384	364	549
75°	295	255	199	169	160	312
85°	74	50	43	42	40	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.8	1776.8	1776.8	1776.8	1776.8
2.5°	1780.8	1776.8	1763.4	1776.8	1775.5
5°	1774.1	1768.8	1754.0	1767.4	1764.7
7.5°	1760.7	1755.4	1737.9	1748.6	1746.0
10°	1740.6	1736.6	1717.8	1721.8	1717.8
12.5°	1717.8	1712.4	1685.6	1688.3	1681.5
15°	1686.9	1678.9	1650.7	1649.3	1637.3
17.5°	1654.7	1642.6	1609.1	1602.4	1593.0
20°	1615.8	1602.4	1559.4	1552.7	1540.6
22.5°	1572.8	1559.4	1513.8	1499.0	1489.6
25°	1529.9	1509.8	1460.1	1442.7	1427.9
27.5°	1481.6	1457.4	1405.1	1382.3	1367.5
30°	1427.9	1402.4	1346.0	1315.2	1303.1
32.5°	1375.6	1344.7	1287.0	1252.1	1236.0
35°	1317.9	1285.6	1225.3	1186.3	1167.5
37.5°	1262.8	1223.9	1162.2	1116.6	1097.8
40°	1203.8	1163.5	1099.1	1048.1	1032.0
42.5°	1142.1	1100.4	1033.3	985.0	959.5
45°	1079.0	1040.1	966.2	912.6	892.4
47.5°	1013.2	973.0	899.1	844.1	821.3
50°	951.5	907.2	830.7	774.3	754.2
52.5°	884.4	838.8	767.6	705.9	685.8
55°	818.6	775.7	700.5	640.1	618.7
57.5°	751.5	705.9	633.4	574.4	555.6
60°	687.1	640.1	567.7	508.6	488.5
62.5°	618.7	574.4	500.6	446.9	426.8
65°	554.3	508.6	437.5	383.8	363.7
67.5°	489.8	444.2	375.8	324.8	308.7
70°	424.1	378.4	311.3	269.7	253.6
72.5°	359.7	315.4	253.6	216.1	206.7
75°	295.2	255.0	198.6	169.1	159.7
77.5°	229.5	197.3	150.3	127.5	119.4
80°	174.5	142.3	104.7	92.6	89.9
82.5°	120.8	92.6	69.8	65.8	64.4
85°	73.8	49.7	42.9	41.6	40.3
87.5°	30.9	21.5	20.1	20.1	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)