

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: P1056402

Luminaire Tested: S125R3DR-S1270D930-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-10)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S1270D930-X4F0-XX-UDD-FLL-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

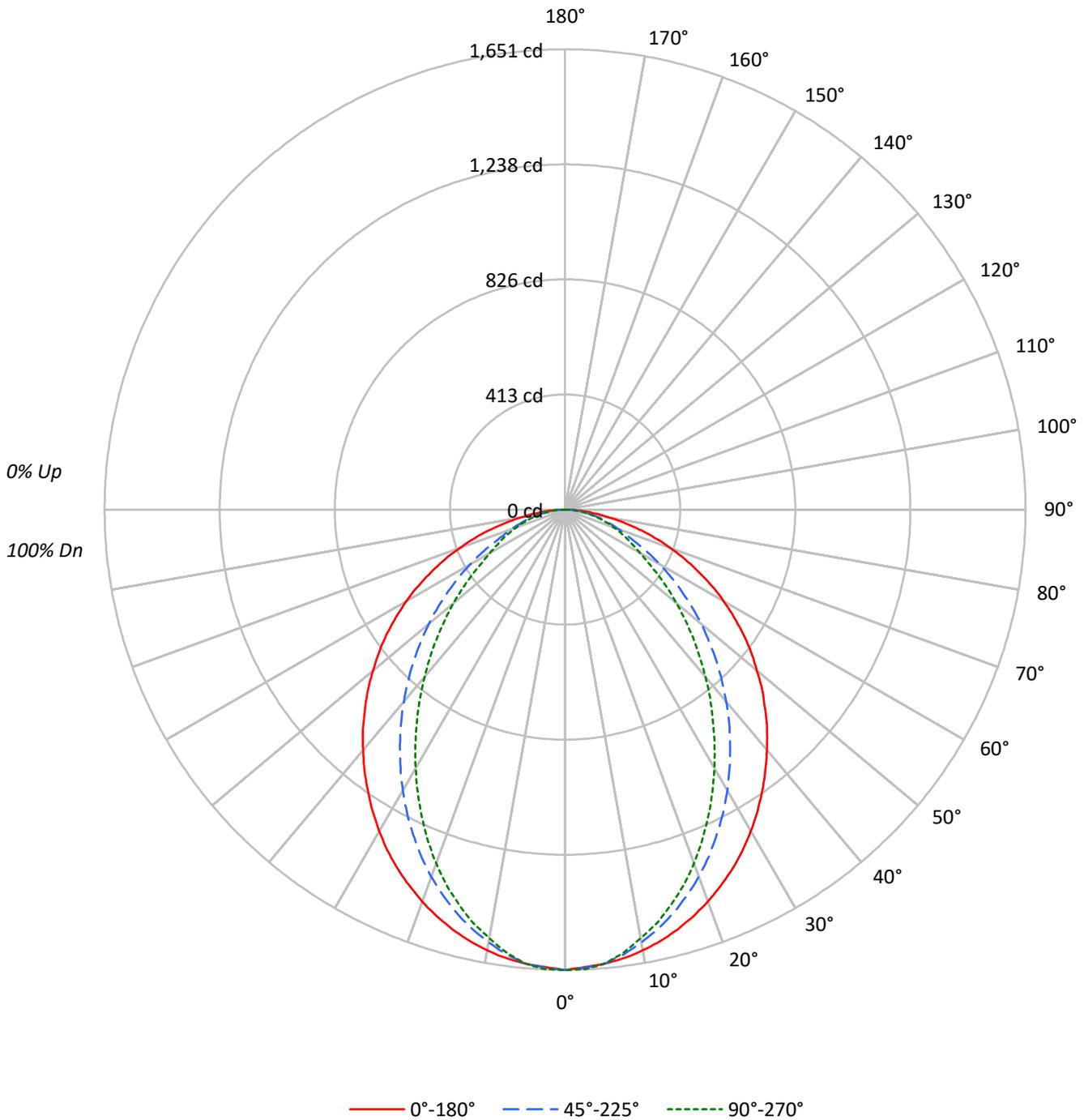
Lumens per Lamp: N/A
Luminaire Lumens: 3500.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11674	11674	11674
5°	11605	11596	11605
10°	11528	11315	11210
15°	11411	10970	10745
20°	11257	10545	10166
25°	11087	10042	9476
30°	10871	9495	8743
35°	10633	8903	7980
40°	10394	8294	7229
45°	10142	7658	6478
50°	9872	7005	5733
55°	9623	6289	4985
60°	9283	5528	4382
65°	8824	4689	4073
70°	8284	4194	3811
75°	7489	3862	3594
80°	6506	3505	3355
85°	5086	3090	3090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10142 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	4.4
10°-20°	424.2	12.1
20°-30°	599.3	17.1
30°-40°	659.7	18.8
40°-50°	615.4	17.6
50°-60°	491.3	14.0
60°-70°	330.6	9.4
70°-80°	176.1	5.0
80°-90°	48.9	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°	1178.0	33.7
0°-40°	1837.7	52.5
0°-60°	2944.4	84.1
0°-90°	3500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1635	1649	1634	1629	1635	155
15°	1559	1550	1499	1473	1468	440
25°	1421	1378	1287	1231	1215	654
35°	1232	1160	1032	950	925	771
45°	1014	918	766	673	648	783
55°	781	663	510	429	404	697
65°	528	412	280	248	244	523
75°	274	182	141	133	132	292
85°	63	43	38	39	38	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1651.3	1651.3	1651.3	1651.3	1651.3
2.5°	1642.7	1656.3	1645.2	1647.7	1650.1
5°	1635.4	1648.9	1634.1	1629.2	1635.4
7.5°	1623.1	1634.1	1609.5	1598.5	1603.4
10°	1605.9	1613.2	1576.3	1561.6	1561.6
12.5°	1584.9	1584.9	1540.7	1519.8	1519.8
15°	1559.1	1550.5	1498.9	1473.1	1468.1
17.5°	1529.6	1513.6	1452.2	1419.0	1412.8
20°	1496.4	1470.6	1401.7	1358.7	1351.3
22.5°	1459.5	1426.3	1346.4	1293.5	1284.9
25°	1421.4	1378.4	1287.4	1230.8	1214.8
27.5°	1378.4	1326.7	1227.1	1163.2	1143.5
30°	1331.7	1272.6	1163.2	1091.9	1071.0
32.5°	1283.7	1217.3	1098.0	1021.8	998.4
35°	1232.1	1159.5	1031.6	950.5	924.7
37.5°	1180.4	1101.7	966.5	881.6	854.6
40°	1126.3	1040.2	898.8	811.5	783.3
42.5°	1072.2	980.0	832.4	743.9	714.4
45°	1014.4	918.5	766.0	672.6	648.0
47.5°	959.1	855.8	700.9	609.9	582.8
50°	897.6	790.6	636.9	545.9	521.3
52.5°	841.0	726.7	573.0	488.1	462.3
55°	780.8	662.8	510.3	429.1	404.5
57.5°	718.1	598.8	450.0	373.8	350.4
60°	656.6	534.9	391.0	320.9	309.9
62.5°	593.9	474.6	335.7	281.6	274.2
65°	527.5	411.9	280.3	248.4	243.5
67.5°	464.8	351.7	236.1	217.6	212.7
70°	400.8	291.4	202.9	186.9	184.4
72.5°	338.1	233.6	170.9	159.8	157.4
75°	274.2	182.0	141.4	132.8	131.6
77.5°	215.2	136.5	111.9	108.2	105.7
80°	159.8	102.1	86.1	83.6	82.4
82.5°	109.4	70.1	61.5	61.5	59.0
85°	62.7	43.0	38.1	39.3	38.1
87.5°	23.4	18.4	17.2	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)