

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: P1056411

Luminaire Tested: S125R3DR-S1270D950-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056411
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-S1270D950-X4F0-XX-UDD-FLL-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

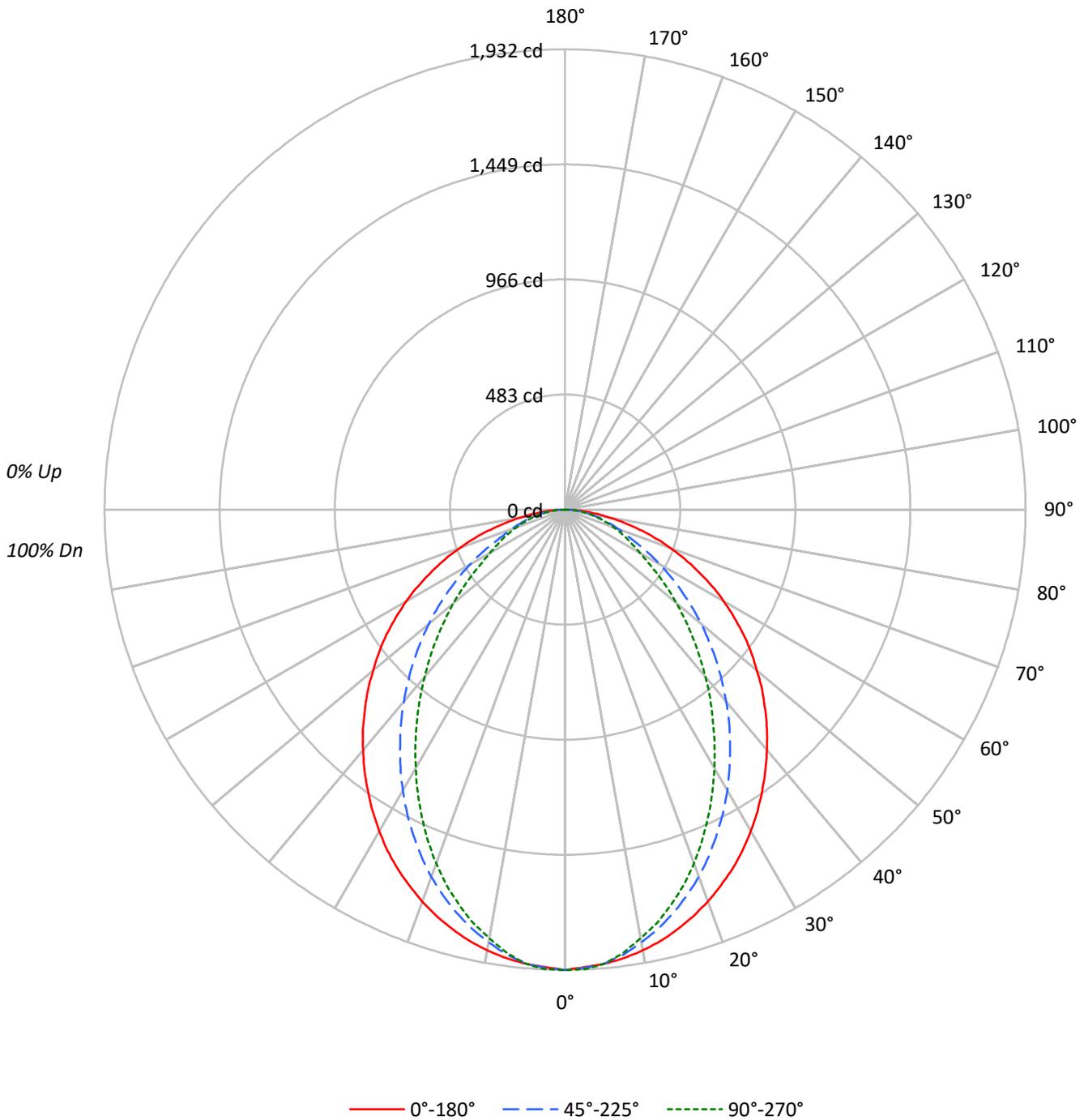
Lumens per Lamp: N/A
Luminaire Lumens: 4095.4 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1056411

CATALOG NUMBER: S125R3DR-S1270D950-X4F0-XX-UDD-FLL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1056411

CATALOG NUMBER: S125R3DR-S1270D950-X4F0-XX-UDD-FLL-W

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	30	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13660	13660	13660
5°	13580	13569	13580
10°	13488	13241	13116
15°	13352	12836	12573
20°	13173	12339	11895
25°	12973	11750	11088
30°	12720	11111	10230
35°	12442	10417	9338
40°	12162	9705	8458
45°	11867	8962	7580
50°	11551	8197	6709
55°	11260	7359	5835
60°	10863	6468	5127
65°	10324	5487	4766
70°	9694	4907	4460
75°	8762	4520	4204
80°	7613	4100	3925
85°	5954	3618	3618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11867 cd/sqm



TEST NUMBER: P1056411

CATALOG NUMBER: S125R3DR-S1270D950-X4F0-XX-UDD-FLL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	4.4
10°-20°	496.4	12.1
20°-30°	701.2	17.1
30°-40°	772.0	18.8
40°-50°	720.1	17.6
50°-60°	574.8	14.0
60°-70°	386.8	9.4
70°-80°	206.0	5.0
80°-90°	57.3	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°	1378.4	33.7
0°-40°	2150.4	52.5
0°-60°	3445.3	84.1
0°-90°	4095.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4095.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1914	1929	1912	1906	1914	182
15°	1824	1814	1754	1724	1718	514
25°	1663	1613	1506	1440	1422	766
35°	1442	1357	1207	1112	1082	902
45°	1187	1075	896	787	758	916
55°	914	776	597	502	473	816
65°	617	482	328	291	285	612
75°	321	213	166	155	154	342
85°	73	50	45	46	45	88
90°	0	0	0	0	0	



TEST NUMBER: P1056411

CATALOG NUMBER: S125R3DR-S1270D950-X4F0-XX-UDD-FLL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1932.3	1932.3	1932.3	1932.3	1932.3
2.5°	1922.2	1938.0	1925.1	1928.0	1930.8
5°	1913.6	1929.4	1912.1	1906.4	1913.6
7.5°	1899.2	1912.1	1883.4	1870.4	1876.2
10°	1879.0	1887.7	1844.5	1827.2	1827.2
12.5°	1854.6	1854.6	1802.8	1778.3	1778.3
15°	1824.4	1814.3	1753.9	1723.7	1717.9
17.5°	1789.8	1771.1	1699.2	1660.4	1653.2
20°	1751.0	1720.8	1640.2	1589.9	1581.2
22.5°	1707.8	1669.0	1575.5	1513.6	1503.5
25°	1663.2	1612.9	1506.4	1440.2	1421.5
27.5°	1612.9	1552.4	1435.9	1361.1	1338.1
30°	1558.2	1489.1	1361.1	1277.6	1253.2
32.5°	1502.1	1424.4	1284.8	1195.6	1168.3
35°	1441.7	1356.8	1207.1	1112.2	1082.0
37.5°	1381.2	1289.1	1130.9	1031.6	1000.0
40°	1317.9	1217.2	1051.7	949.6	916.5
42.5°	1254.6	1146.7	974.1	870.5	835.9
45°	1187.0	1074.8	896.4	787.0	758.2
47.5°	1122.2	1001.4	820.1	713.6	682.0
50°	1050.3	925.1	745.3	638.8	610.0
52.5°	984.1	850.3	670.5	571.2	541.0
55°	913.6	775.5	597.1	502.1	473.4
57.5°	840.2	700.7	526.6	437.4	410.1
60°	768.3	625.9	457.5	375.5	362.6
62.5°	694.9	555.4	392.8	329.5	320.8
65°	617.2	482.0	328.0	290.6	284.9
67.5°	543.9	411.5	276.2	254.7	248.9
70°	469.0	341.0	237.4	218.7	215.8
72.5°	395.7	273.4	200.0	187.0	184.2
75°	320.8	212.9	165.5	155.4	153.9
77.5°	251.8	159.7	130.9	126.6	123.7
80°	187.0	119.4	100.7	97.8	96.4
82.5°	128.1	82.0	71.9	71.9	69.1
85°	73.4	50.4	44.6	46.0	44.6
87.5°	27.3	21.6	20.1	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)