

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: P1056392

Luminaire Tested: S125R3DR-S1270D840-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-12)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S1270D840-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

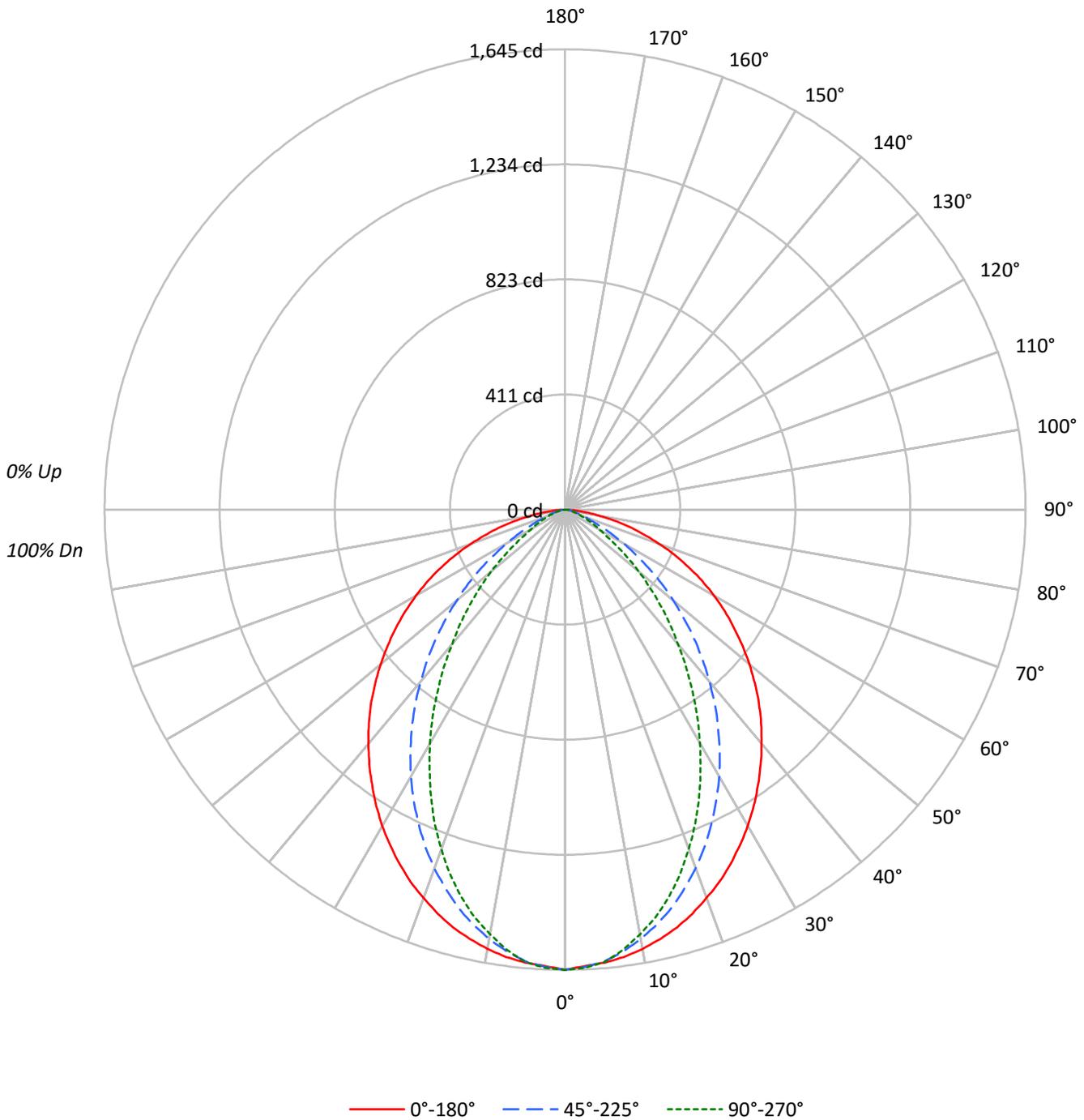
Lumens per Lamp: N/A
Luminaire Lumens: 2973.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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: P1056392

CATALOG NUMBER: S125R3DR-S1270D840-X4F0-XX-UDD-FLL-S

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				100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				52
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				47
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35				35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11628	11628	11628
5°	11532	11500	11522
10°	11447	11185	11064
15°	11314	10779	10489
20°	11114	10266	9716
25°	10905	9658	8838
30°	10654	8989	7870
35°	10371	8228	6848
40°	10077	7393	5791
45°	9791	6517	4797
50°	9447	5544	3769
55°	9085	4505	2741
60°	8678	3359	1960
65°	8153	2216	1529
70°	7367	1542	1071
75°	6405	1000	833
80°	5024	745	684
85°	2596	616	495

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9791 cd/sqm



TEST NUMBER: P1056392

CATALOG NUMBER: S125R3DR-S1270D840-X4F0-XX-UDD-FLL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	5.2
10°-20°	416.5	14.0
20°-30°	576.0	19.4
30°-40°	610.2	20.5
40°-50°	532.6	17.9
50°-60°	378.8	12.7
60°-70°	210.7	7.1
70°-80°	81.0	2.7
80°-90°	14.0	0.5
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°	1145.7	38.5
0°-40°	1755.9	59.1
0°-60°	2667.3	89.7
0°-90°	2973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1625	1637	1620	1616	1624	154
15°	1546	1532	1473	1441	1433	435
25°	1398	1351	1238	1162	1133	644
35°	1202	1119	953	838	794	752
45°	979	862	652	521	480	755
55°	737	591	366	253	222	659
65°	487	320	132	98	91	482
75°	234	91	37	30	30	249
85°	32	9	8	6	6	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1644.9	1644.9	1644.9	1644.9	1644.9
2.5°	1632.7	1649.4	1635.7	1637.3	1638.8
5°	1625.1	1637.3	1620.5	1615.9	1623.6
7.5°	1612.9	1622.0	1593.1	1582.4	1587.0
10°	1594.6	1597.7	1558.1	1542.8	1541.3
12.5°	1571.8	1567.2	1518.5	1494.1	1492.6
15°	1545.9	1532.2	1472.8	1440.8	1433.2
17.5°	1513.9	1492.6	1419.5	1378.3	1366.2
20°	1477.3	1448.4	1364.6	1311.3	1291.5
22.5°	1440.8	1401.2	1303.7	1236.7	1215.4
25°	1398.1	1350.9	1238.2	1162.1	1133.1
27.5°	1352.5	1296.1	1171.2	1082.9	1047.8
30°	1305.2	1239.7	1101.2	1002.2	964.1
32.5°	1255.0	1180.3	1028.0	919.9	880.3
35°	1201.7	1119.4	953.4	837.7	793.5
37.5°	1148.4	1057.0	880.3	756.9	711.3
40°	1092.0	993.0	801.1	674.7	627.5
42.5°	1037.2	927.5	726.5	597.0	554.4
45°	979.3	862.0	651.9	520.9	479.8
47.5°	919.9	793.5	577.2	449.3	408.2
50°	859.0	726.5	504.1	379.2	342.7
52.5°	798.1	659.5	435.6	312.2	280.2
55°	737.1	590.9	365.5	252.8	222.4
57.5°	676.2	523.9	300.0	198.0	170.6
60°	613.8	455.4	237.6	146.2	138.6
62.5°	551.3	388.4	184.3	120.3	114.2
65°	487.4	319.8	132.5	97.5	91.4
67.5°	423.4	257.4	96.0	74.6	70.1
70°	356.4	196.5	74.6	56.4	51.8
72.5°	292.4	141.6	53.3	41.1	39.6
75°	234.5	91.4	36.6	30.5	30.5
77.5°	176.7	54.8	25.9	22.8	22.8
80°	123.4	32.0	18.3	16.8	16.8
82.5°	74.6	16.8	12.2	10.7	10.7
85°	32.0	9.1	7.6	6.1	6.1
87.5°	6.1	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)