

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: P1056405

Luminaire Tested: S125R3DR-S1270D935-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056405
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-S1270D935-X4F0-XX-UDD-FLL-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

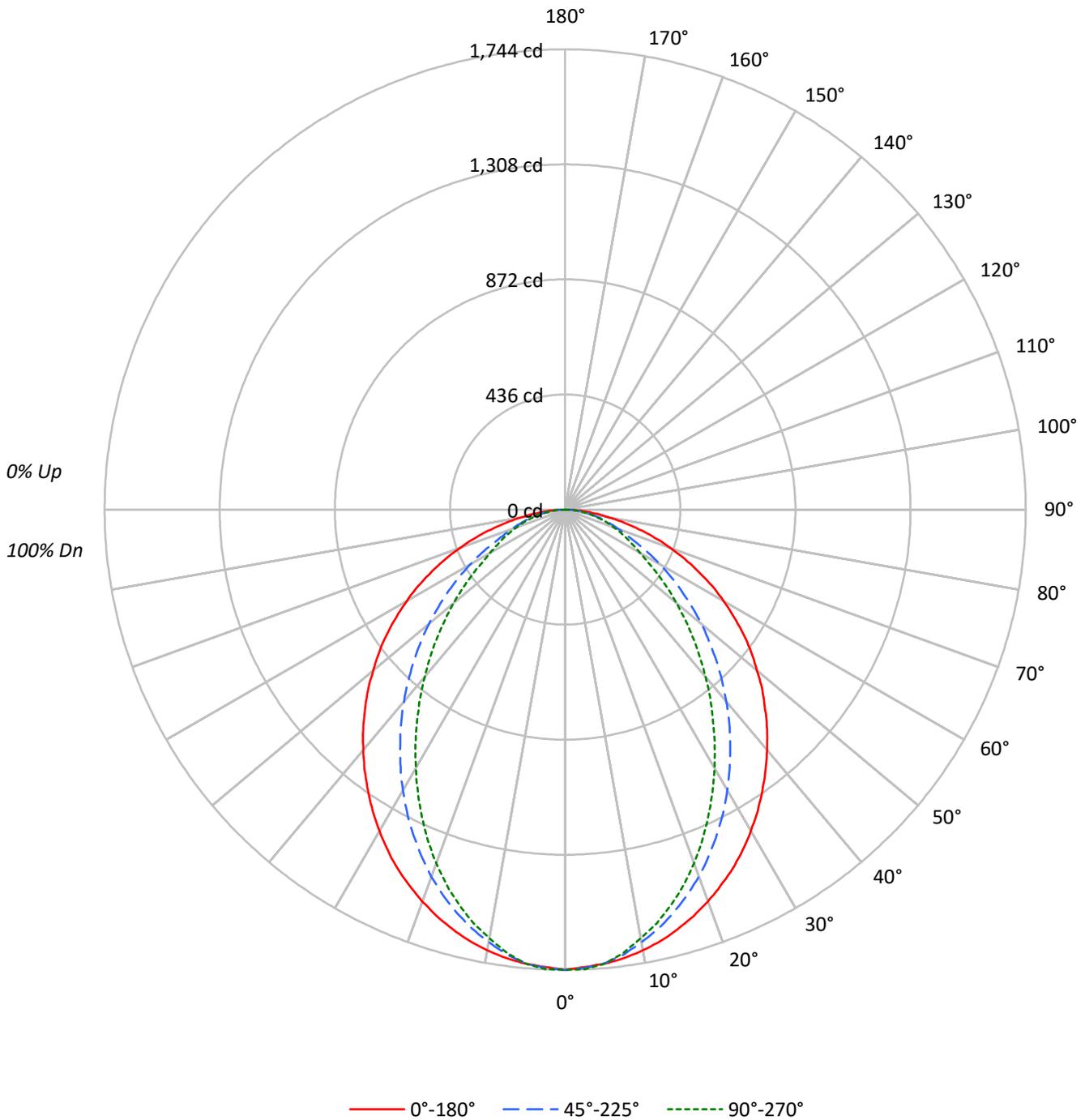
Lumens per Lamp: N/A
Luminaire Lumens: 3696.2 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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°	12328	12328	12328
5°	12255	12246	12255
10°	12174	11950	11838
15°	12050	11585	11347
20°	11889	11136	10736
25°	11709	10604	10007
30°	11480	10027	9232
35°	11229	9402	8427
40°	10976	8760	7634
45°	10710	8088	6841
50°	10425	7397	6055
55°	10163	6642	5265
60°	9804	5838	4626
65°	9319	4953	4301
70°	8749	4429	4026
75°	7910	4078	3794
80°	6872	3701	3542
85°	5370	3269	3269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10710 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	4.4
10°-20°	448.0	12.1
20°-30°	632.9	17.1
30°-40°	696.7	18.8
40°-50°	649.9	17.6
50°-60°	518.8	14.0
60°-70°	349.1	9.4
70°-80°	185.9	5.0
80°-90°	51.7	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°	1244.0	33.7
0°-40°	1940.7	52.5
0°-60°	3109.4	84.1
0°-90°	3696.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1727	1741	1726	1720	1727	164
15°	1646	1637	1583	1556	1550	464
25°	1501	1456	1360	1300	1283	691
35°	1301	1224	1090	1004	976	814
45°	1071	970	809	710	684	827
55°	825	700	539	453	427	736
65°	557	435	296	262	257	553
75°	290	192	149	140	139	308
85°	66	45	40	42	40	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1743.9	1743.9	1743.9	1743.9	1743.9
2.5°	1734.8	1749.1	1737.4	1740.0	1742.6
5°	1727.0	1741.3	1725.7	1720.5	1727.0
7.5°	1714.0	1725.7	1699.8	1688.1	1693.3
10°	1695.9	1703.7	1664.7	1649.1	1649.1
12.5°	1673.8	1673.8	1627.0	1605.0	1605.0
15°	1646.5	1637.4	1582.9	1555.6	1550.4
17.5°	1615.4	1598.5	1533.5	1498.5	1492.0
20°	1580.3	1553.0	1480.3	1434.9	1427.1
22.5°	1541.3	1506.3	1421.9	1366.0	1357.0
25°	1501.1	1455.6	1359.5	1299.8	1282.9
27.5°	1455.6	1401.1	1295.9	1228.4	1207.6
30°	1406.3	1344.0	1228.4	1153.1	1131.0
32.5°	1355.7	1285.5	1159.6	1079.1	1054.4
35°	1301.1	1224.5	1089.5	1003.8	976.5
37.5°	1246.6	1163.5	1020.6	931.0	902.5
40°	1189.4	1098.5	949.2	857.0	827.2
42.5°	1132.3	1034.9	879.1	785.6	754.4
45°	1071.3	970.0	809.0	710.3	684.3
47.5°	1012.8	903.8	740.2	644.1	615.5
50°	947.9	834.9	672.6	576.5	550.6
52.5°	888.2	767.4	605.1	515.5	488.2
55°	824.6	699.9	538.9	453.2	427.2
57.5°	758.3	632.4	475.3	394.7	370.1
60°	693.4	564.9	412.9	338.9	327.2
62.5°	627.2	501.2	354.5	297.4	289.6
65°	557.1	435.0	296.1	262.3	257.1
67.5°	490.8	371.4	249.3	229.8	224.6
70°	423.3	307.7	214.3	197.4	194.8
72.5°	357.1	246.7	180.5	168.8	166.2
75°	289.6	192.2	149.3	140.2	138.9
77.5°	227.2	144.1	118.2	114.3	111.7
80°	168.8	107.8	90.9	88.3	87.0
82.5°	115.6	74.0	64.9	64.9	62.3
85°	66.2	45.4	40.3	41.6	40.3
87.5°	24.7	19.5	18.2	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)