

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: P1056404

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056404
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-S1270D935-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

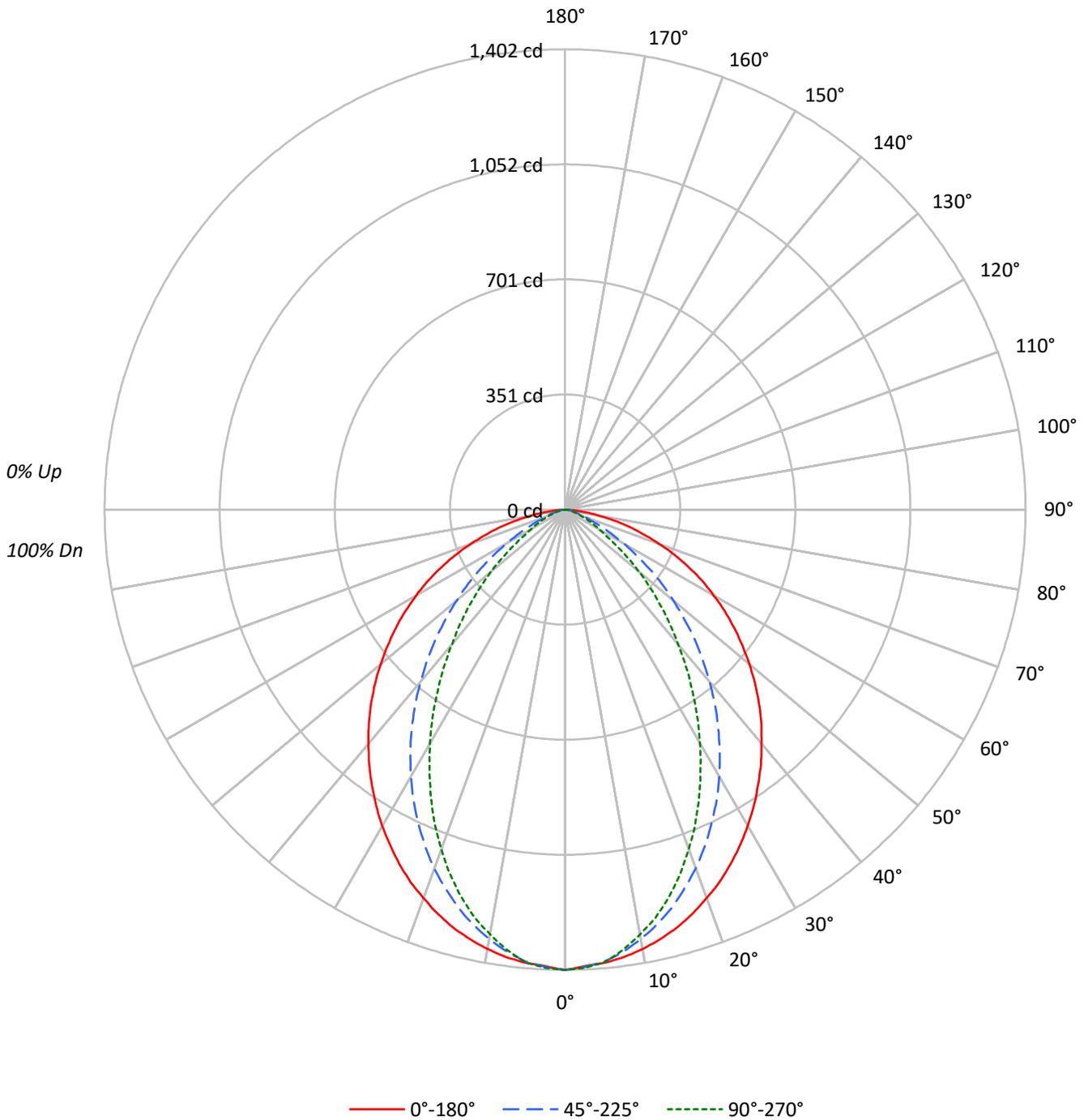
Lumens per Lamp: N/A
Luminaire Lumens: 2534.7 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9914	9914	9914
5°	9832	9804	9823
10°	9759	9536	9433
15°	9646	9190	8943
20°	9476	8753	8284
25°	9298	8235	7536
30°	9084	7663	6710
35°	8842	7015	5838
40°	8592	6303	4937
45°	8347	5557	4089
50°	8055	4727	3214
55°	7746	3840	2337
60°	7399	2864	1671
65°	6950	1890	1303
70°	6281	1315	912
75°	5463	852	710
80°	4283	635	582
85°	2214	527	422

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8347 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	5.2
10°-20°	355.1	14.0
20°-30°	491.0	19.4
30°-40°	520.3	20.5
40°-50°	454.1	17.9
50°-60°	323.0	12.7
60°-70°	179.6	7.1
70°-80°	69.1	2.7
80°-90°	12.0	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°	976.8	38.5
0°-40°	1497.0	59.1
0°-60°	2274.1	89.7
0°-90°	2534.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1386	1396	1382	1378	1384	131
15°	1318	1306	1256	1228	1222	371
25°	1192	1152	1056	991	966	549
35°	1024	954	813	714	676	641
45°	835	735	556	444	409	644
55°	628	504	312	216	190	562
65°	416	273	113	83	78	411
75°	200	78	31	26	26	212
85°	27	8	6	5	5	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1402.4	1402.4	1402.4	1402.4	1402.4
2.5°	1392.0	1406.3	1394.6	1395.9	1397.2
5°	1385.5	1395.9	1381.6	1377.7	1384.2
7.5°	1375.1	1382.9	1358.2	1349.2	1353.1
10°	1359.5	1362.1	1328.4	1315.4	1314.1
12.5°	1340.1	1336.2	1294.6	1273.8	1272.5
15°	1318.0	1306.3	1255.7	1228.4	1221.9
17.5°	1290.7	1272.5	1210.2	1175.2	1164.8
20°	1259.6	1234.9	1163.5	1118.0	1101.1
22.5°	1228.4	1194.6	1111.5	1054.4	1036.2
25°	1192.0	1151.8	1055.7	990.8	966.1
27.5°	1153.1	1105.0	998.6	923.2	893.4
30°	1112.8	1057.0	938.8	854.4	822.0
32.5°	1070.0	1006.4	876.5	784.3	750.5
35°	1024.5	954.4	812.9	714.2	676.5
37.5°	979.1	901.2	750.5	645.4	606.4
40°	931.0	846.6	683.0	575.2	535.0
42.5°	884.3	790.8	619.4	509.0	472.7
45°	834.9	735.0	555.8	444.1	409.0
47.5°	784.3	676.5	492.1	383.1	348.0
50°	732.4	619.4	429.8	323.3	292.2
52.5°	680.4	562.3	371.4	266.2	238.9
55°	628.5	503.8	311.6	215.6	189.6
57.5°	576.5	446.7	255.8	168.8	145.4
60°	523.3	388.3	202.6	124.7	118.2
62.5°	470.1	331.1	157.1	102.6	97.4
65°	415.5	272.7	113.0	83.1	77.9
67.5°	361.0	219.4	81.8	63.6	59.7
70°	303.9	167.5	63.6	48.0	44.1
72.5°	249.3	120.8	45.4	35.1	33.8
75°	200.0	77.9	31.2	26.0	26.0
77.5°	150.6	46.7	22.1	19.5	19.5
80°	105.2	27.3	15.6	14.3	14.3
82.5°	63.6	14.3	10.4	9.1	9.1
85°	27.3	7.8	6.5	5.2	5.2
87.5°	5.2	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)