

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: P1056398

Luminaire Tested: S125R3DR-S1270D927-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056398
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-S1270D927-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

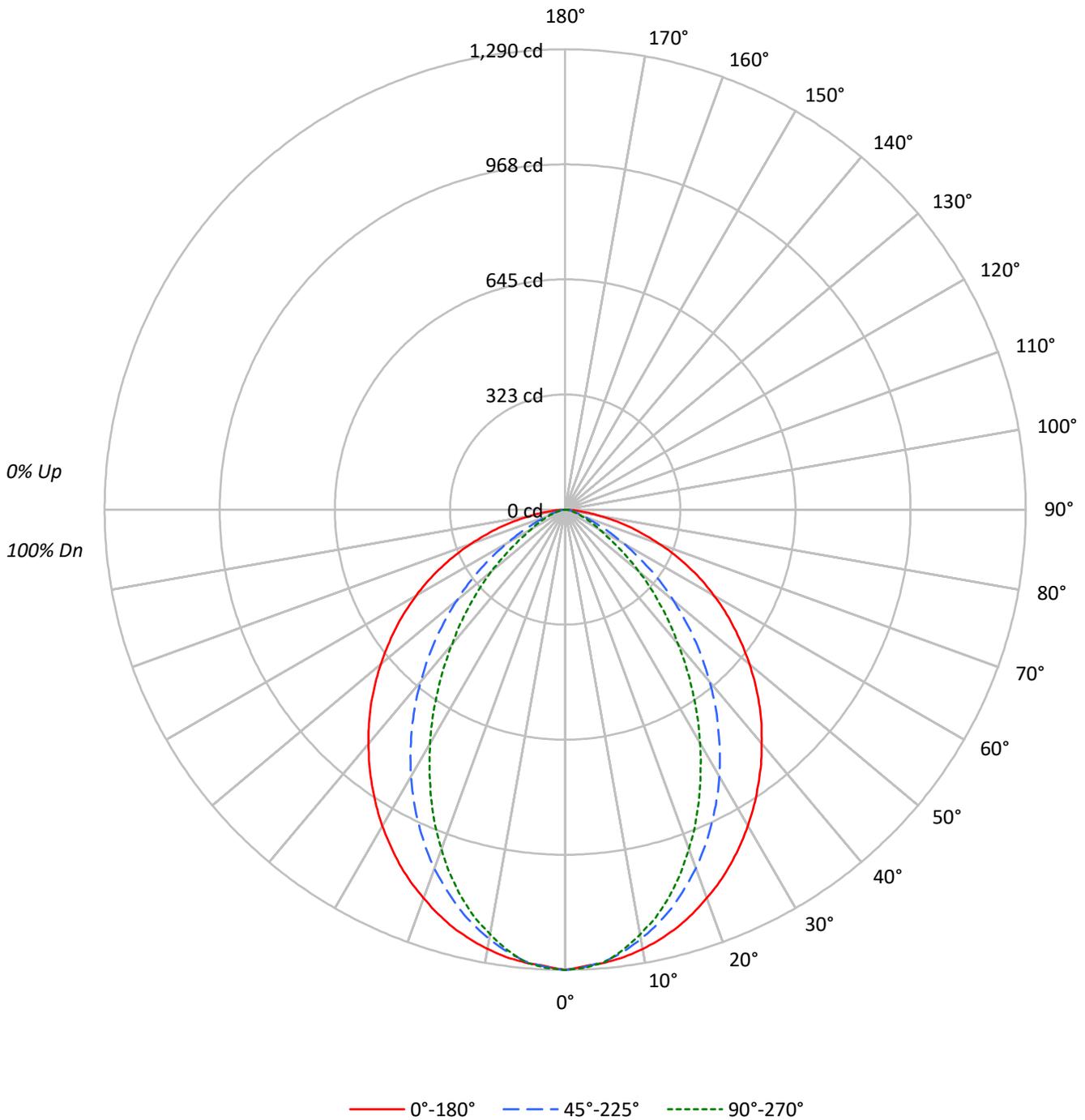
Lumens per Lamp: N/A
Luminaire Lumens: 2332.1 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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°	9122	9122	9122
5°	9046	9021	9038
10°	8979	8773	8679
15°	8875	8455	8228
20°	8718	8053	7622
25°	8555	7576	6934
30°	8358	7051	6174
35°	8135	6454	5372
40°	7905	5799	4542
45°	7680	5112	3762
50°	7410	4350	2956
55°	7126	3534	2149
60°	6808	2635	1537
65°	6395	1738	1199
70°	5779	1209	839
75°	5026	784	653
80°	3941	582	533
85°	2036	487	389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	5.2
10°-20°	326.7	14.0
20°-30°	451.8	19.4
30°-40°	478.7	20.5
40°-50°	417.8	17.9
50°-60°	297.2	12.7
60°-70°	165.2	7.1
70°-80°	63.5	2.7
80°-90°	11.0	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°	898.7	38.5
0°-40°	1377.4	59.1
0°-60°	2092.3	89.7
0°-90°	2332.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2332.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1275	1284	1271	1268	1274	121
15°	1213	1202	1155	1130	1124	342
25°	1097	1060	971	912	889	505
35°	943	878	748	657	622	590
45°	768	676	511	409	376	592
55°	578	464	287	198	174	517
65°	382	251	104	76	72	378
75°	184	72	29	24	24	195
85°	25	7	6	5	5	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1290.3	1290.3	1290.3	1290.3	1290.3
2.5°	1280.8	1293.9	1283.1	1284.3	1285.5
5°	1274.8	1284.3	1271.2	1267.6	1273.6
7.5°	1265.2	1272.4	1249.7	1241.3	1244.9
10°	1250.9	1253.3	1222.2	1210.3	1209.1
12.5°	1233.0	1229.4	1191.1	1172.0	1170.8
15°	1212.7	1201.9	1155.3	1130.2	1124.2
17.5°	1187.6	1170.8	1113.5	1081.2	1071.7
20°	1158.9	1136.2	1070.5	1028.7	1013.1
22.5°	1130.2	1099.2	1022.7	970.1	953.4
25°	1096.8	1059.7	971.3	911.6	888.9
27.5°	1060.9	1016.7	918.7	849.5	822.0
30°	1023.9	972.5	863.8	786.1	756.3
32.5°	984.5	925.9	806.4	721.6	690.6
35°	942.6	878.1	747.9	657.1	622.5
37.5°	900.8	829.1	690.6	593.8	557.9
40°	856.6	779.0	628.4	529.3	492.2
42.5°	813.6	727.6	569.9	468.3	434.9
45°	768.2	676.2	511.3	408.6	376.3
47.5°	721.6	622.5	452.8	352.4	320.2
50°	673.8	569.9	395.5	297.5	268.8
52.5°	626.0	517.3	341.7	244.9	219.8
55°	578.2	463.6	286.7	198.3	174.4
57.5°	530.5	411.0	235.4	155.3	133.8
60°	481.5	357.2	186.4	114.7	108.7
62.5°	432.5	304.7	144.6	94.4	89.6
65°	382.3	250.9	103.9	76.5	71.7
67.5°	332.1	201.9	75.3	58.5	55.0
70°	279.6	154.1	58.5	44.2	40.6
72.5°	229.4	111.1	41.8	32.3	31.1
75°	184.0	71.7	28.7	23.9	23.9
77.5°	138.6	43.0	20.3	17.9	17.9
80°	96.8	25.1	14.3	13.1	13.1
82.5°	58.5	13.1	9.6	8.4	8.4
85°	25.1	7.2	6.0	4.8	4.8
87.5°	4.8	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)