

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: P1056371

Luminaire Tested: S125R3DR-S1090D927-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056371
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-S1090D927-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

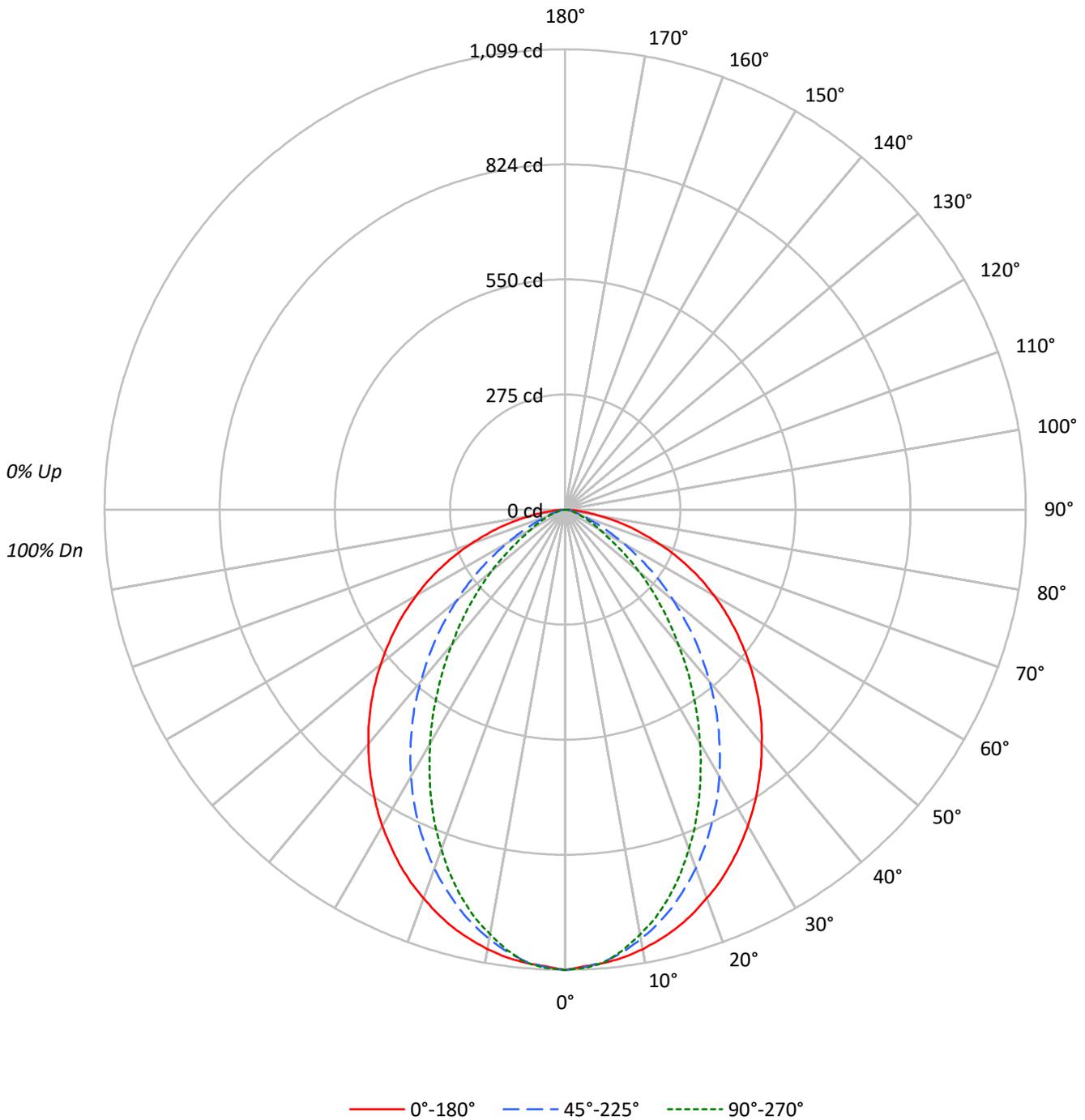
Lumens per Lamp: N/A
Luminaire Lumens: 1987.2 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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°	7772	7772	7772
5°	7708	7687	7701
10°	7651	7476	7395
15°	7562	7205	7011
20°	7429	6862	6495
25°	7289	6455	5908
30°	7121	6008	5260
35°	6932	5500	4577
40°	6736	4942	3870
45°	6544	4356	3206
50°	6315	3706	2520
55°	6073	3011	1831
60°	5801	2245	1309
65°	5450	1482	1022
70°	4923	1031	715
75°	4283	666	557
80°	3359	497	456
85°	1736	414	333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6544 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	5.2
10°-20°	278.4	14.0
20°-30°	385.0	19.4
30°-40°	407.9	20.5
40°-50°	356.0	17.9
50°-60°	253.2	12.7
60°-70°	140.8	7.1
70°-80°	54.1	2.7
80°-90°	9.4	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°	765.8	38.5
0°-40°	1173.6	59.1
0°-60°	1782.8	89.7
0°-90°	1987.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1086	1094	1083	1080	1085	103
15°	1033	1024	984	963	958	291
25°	934	903	828	777	757	430
35°	803	748	637	560	530	503
45°	655	576	436	348	321	505
55°	493	395	244	169	149	441
65°	326	214	89	65	61	322
75°	157	61	24	20	20	166
85°	21	6	5	4	4	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.4	1099.4	1099.4	1099.4	1099.4
2.5°	1091.3	1102.5	1093.3	1094.4	1095.4
5°	1086.2	1094.4	1083.2	1080.1	1085.2
7.5°	1078.1	1084.2	1064.8	1057.7	1060.8
10°	1065.9	1067.9	1041.4	1031.2	1030.2
12.5°	1050.6	1047.5	1014.9	998.7	997.6
15°	1033.3	1024.1	984.4	963.0	957.9
17.5°	1011.9	997.6	948.8	921.3	913.1
20°	987.5	968.1	912.1	876.5	863.3
22.5°	963.0	936.6	871.4	826.6	812.4
25°	934.5	903.0	827.6	776.7	757.4
27.5°	904.0	866.3	782.8	723.8	700.4
30°	872.4	828.7	736.0	669.8	644.4
32.5°	838.8	789.0	687.2	614.9	588.4
35°	803.2	748.2	637.3	559.9	530.4
37.5°	767.6	706.5	588.4	505.9	475.4
40°	729.9	663.7	535.5	451.0	419.4
42.5°	693.3	620.0	485.6	399.1	370.6
45°	654.6	576.2	435.7	348.2	320.7
47.5°	614.9	530.4	385.8	300.3	272.8
50°	574.2	485.6	337.0	253.5	229.1
52.5°	533.4	440.8	291.1	208.7	187.3
55°	492.7	395.0	244.3	169.0	148.6
57.5°	452.0	350.2	200.5	132.3	114.0
60°	410.3	304.4	158.8	97.7	92.6
62.5°	368.5	259.6	123.2	80.4	76.4
65°	325.8	213.8	88.6	65.2	61.1
67.5°	283.0	172.0	64.1	49.9	46.8
70°	238.2	131.3	49.9	37.7	34.6
72.5°	195.5	94.7	35.6	27.5	26.5
75°	156.8	61.1	24.4	20.4	20.4
77.5°	118.1	36.6	17.3	15.3	15.3
80°	82.5	21.4	12.2	11.2	11.2
82.5°	49.9	11.2	8.1	7.1	7.1
85°	21.4	6.1	5.1	4.1	4.1
87.5°	4.1	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)