

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: P1061492

Luminaire Tested: S125RDR-S1090D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

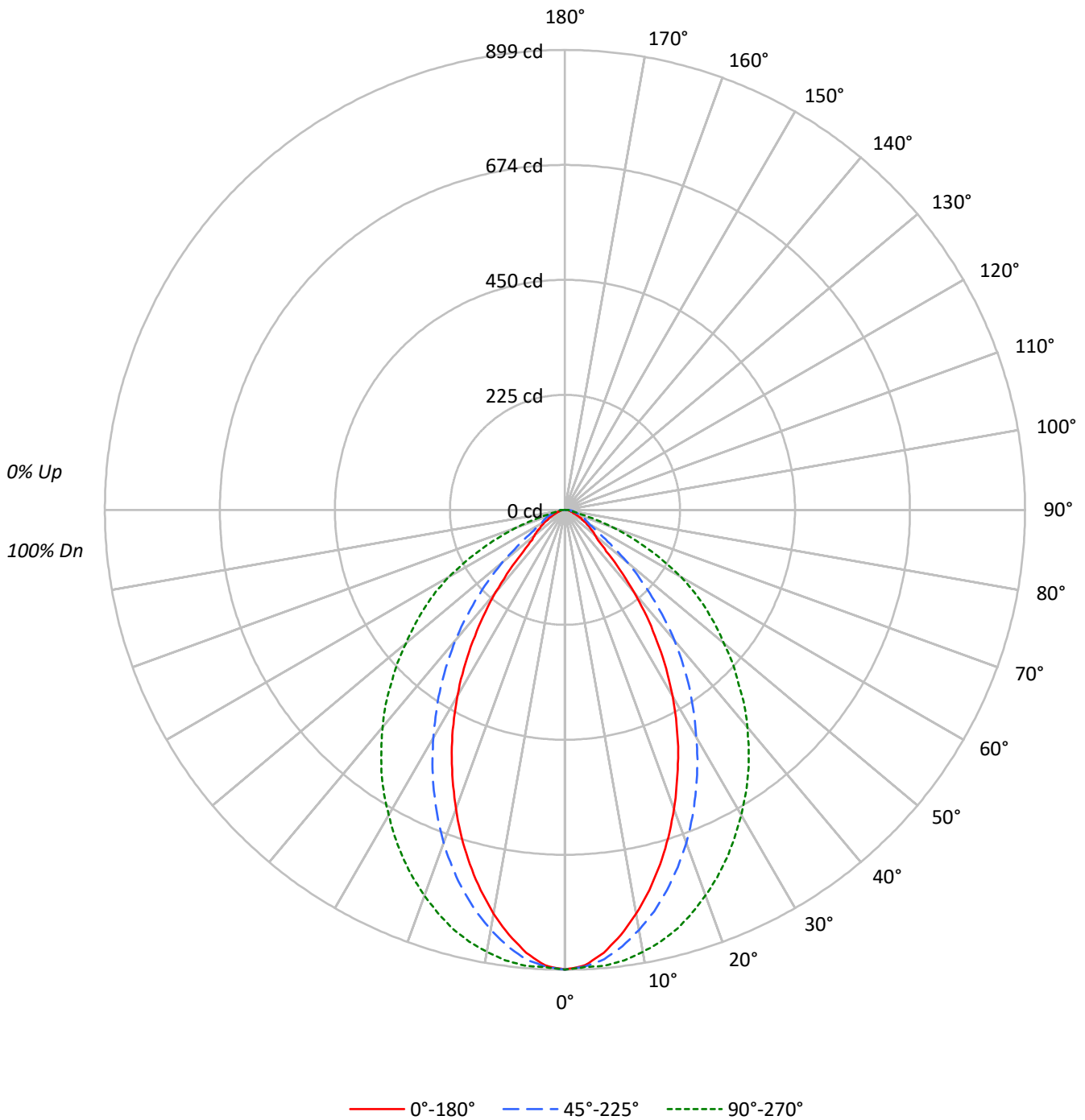
Lumens per Lamp: N/A
Luminaire Lumens: 1297.7 lumens
Efficiency: N/A
Efficacy: 37.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6188	6188	6188
5°	6005	6094	6182
10°	5605	5829	6134
15°	5114	5487	6042
20°	4562	5078	5882
25°	3977	4601	5694
30°	3340	4086	5475
35°	2634	3558	5251
40°	1887	2989	4983
45°	1111	2346	4672
50°	823	1690	4339
55°	691	1024	4031
60°	558	749	3597
65°	435	712	2884
70°	364	664	1953
75°	341	596	851
80°	337	591	551
85°	419	758	592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	6.4
10°-20°	217.5	16.8
20°-30°	284.3	21.9
30°-40°	276.7	21.3
40°-50°	206.8	15.9
50°-60°	128.3	9.9
60°-70°	67.4	5.2
70°-80°	24.5	1.9
80°-90°	9.3	0.7
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°	584.7	45.1
0°-40°	861.4	66.4
0°-60°	1196.5	92.2
0°-90°	1297.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	869	881	882	887	894	81
15°	718	739	770	817	848	200
25°	524	550	606	688	750	239
35°	313	348	423	536	625	195
45°	114	149	241	376	480	96
55°	58	61	85	222	336	52
65°	27	29	44	94	177	28
75°	13	15	22	24	32	14
85°	5	10	10	10	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.7	898.7	898.7	898.7	898.7
2.5°	891.3	898.7	893.4	893.4	894.5
5°	868.9	880.6	881.7	887.0	894.5
7.5°	838.0	851.8	860.4	876.4	888.1
10°	801.7	817.7	833.7	860.4	877.4
12.5°	761.2	780.4	803.9	840.1	864.6
15°	717.5	738.8	769.7	816.7	847.6
17.5°	671.7	694.0	732.4	788.9	826.2
20°	622.6	647.1	693.0	756.9	802.8
22.5°	572.5	600.2	650.3	722.8	777.2
25°	523.5	550.1	605.6	687.6	749.5
27.5°	472.3	500.0	560.8	651.4	719.6
30°	420.1	449.9	513.9	614.1	688.7
32.5°	367.8	398.7	468.0	575.7	657.8
35°	313.4	347.6	423.3	536.3	624.7
37.5°	262.3	298.5	377.4	495.7	589.6
40°	210.0	247.3	332.6	456.3	554.4
42.5°	158.9	197.2	286.8	415.8	519.2
45°	114.1	149.3	240.9	376.3	479.8
47.5°	87.4	107.7	198.3	335.8	444.6
50°	76.8	83.2	157.8	296.4	405.1
52.5°	67.2	71.4	117.3	258.0	371.0
55°	57.6	60.8	85.3	221.8	335.8
57.5°	49.0	52.2	65.0	188.7	299.6
60°	40.5	43.7	54.4	155.7	261.2
62.5°	34.1	35.2	49.0	124.7	218.6
65°	26.7	28.8	43.7	93.8	177.0
67.5°	22.4	23.5	38.4	67.2	136.5
70°	18.1	19.2	33.0	46.9	97.0
72.5°	16.0	16.0	27.7	34.1	61.8
75°	12.8	14.9	22.4	24.5	32.0
77.5°	10.7	14.9	19.2	18.1	17.1
80°	8.5	13.9	14.9	14.9	13.9
82.5°	7.5	11.7	12.8	11.7	10.7
85°	5.3	9.6	9.6	9.6	7.5
87.5°	4.3	8.5	7.5	7.5	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)