

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: P1061510

Luminaire Tested: S125RDR-S1090D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061510
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-S1090D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

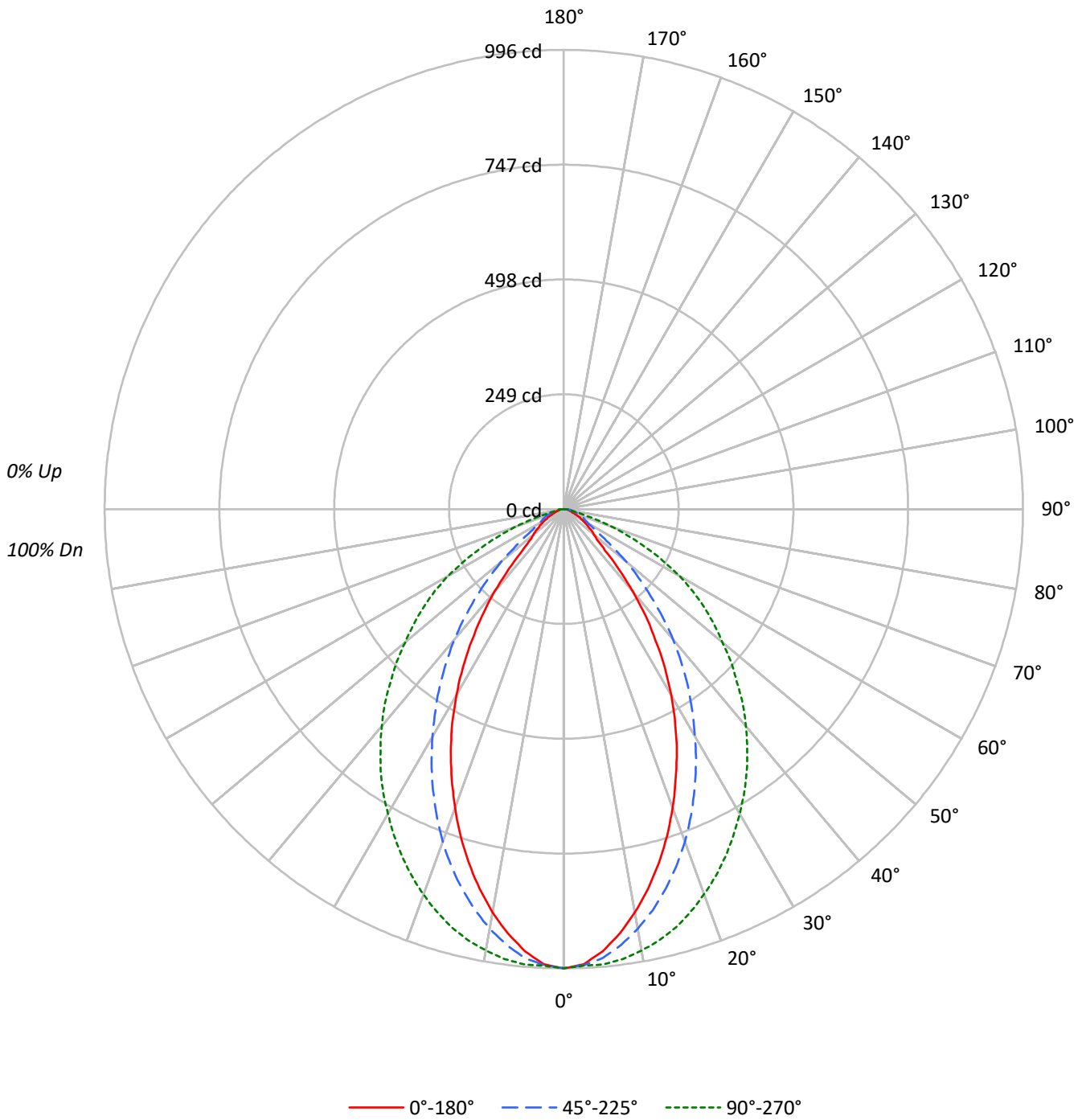
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1437.9 lumens
Efficiency: N/A
Efficacy: 41.1 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°	6856	6856	6856
5°	6654	6752	6850
10°	6211	6459	6797
15°	5667	6080	6694
20°	5055	5626	6517
25°	4406	5098	6309
30°	3700	4527	6067
35°	2919	3942	5818
40°	2092	3313	5521
45°	1231	2600	5176
50°	912	1872	4808
55°	766	1134	4467
60°	618	829	3985
65°	481	789	3195
70°	405	737	2164
75°	378	660	942
80°	377	654	611
85°	466	837	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5176 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	6.4
10°-20°	241.0	16.8
20°-30°	315.0	21.9
30°-40°	306.6	21.3
40°-50°	229.2	15.9
50°-60°	142.1	9.9
60°-70°	74.7	5.2
70°-80°	27.2	1.9
80°-90°	10.3	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°	647.8	45.1
0°-40°	954.5	66.4
0°-60°	1325.8	92.2
0°-90°	1437.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1437.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	963	976	977	983	991	90
15°	795	819	853	905	939	222
25°	580	610	671	762	830	265
35°	347	385	469	594	692	216
45°	126	165	267	417	532	106
55°	64	67	94	246	372	57
65°	30	32	48	104	196	31
75°	14	16	25	27	35	15
85°	6	11	11	11	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.8	995.8	995.8	995.8	995.8
2.5°	987.6	995.8	989.9	989.9	991.1
5°	962.7	975.7	976.9	982.8	991.1
7.5°	928.5	943.8	953.3	971.0	984.0
10°	888.3	906.0	923.8	953.3	972.2
12.5°	843.4	864.7	890.7	930.9	958.0
15°	795.0	818.6	852.9	904.9	939.1
17.5°	744.2	769.0	811.5	874.1	915.5
20°	689.9	717.0	767.8	838.7	889.5
22.5°	634.3	665.1	720.6	800.9	861.2
25°	580.0	609.5	671.0	761.9	830.4
27.5°	523.3	554.0	621.4	721.8	797.4
30°	465.4	498.5	569.4	680.4	763.1
32.5°	407.5	441.8	518.6	637.9	728.9
35°	347.3	385.1	469.0	594.2	692.2
37.5°	290.6	330.8	418.2	549.3	653.2
40°	232.7	274.1	368.6	505.6	614.3
42.5°	176.0	218.5	317.8	460.7	575.3
45°	126.4	165.4	267.0	417.0	531.6
47.5°	96.9	119.3	219.7	372.1	492.6
50°	85.1	92.1	174.8	328.4	448.9
52.5°	74.4	79.1	129.9	285.9	411.1
55°	63.8	67.3	94.5	245.7	372.1
57.5°	54.3	57.9	72.1	209.1	331.9
60°	44.9	48.4	60.2	172.5	289.4
62.5°	37.8	39.0	54.3	138.2	242.2
65°	29.5	31.9	48.4	104.0	196.1
67.5°	24.8	26.0	42.5	74.4	151.2
70°	20.1	21.3	36.6	52.0	107.5
72.5°	17.7	17.7	30.7	37.8	68.5
75°	14.2	16.5	24.8	27.2	35.4
77.5°	11.8	16.5	21.3	20.1	18.9
80°	9.5	15.4	16.5	16.5	15.4
82.5°	8.3	13.0	14.2	13.0	11.8
85°	5.9	10.6	10.6	10.6	8.3
87.5°	4.7	9.5	8.3	8.3	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)