

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: P1061483

Luminaire Tested: S125RDR-S1090D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061483
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-S1090D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

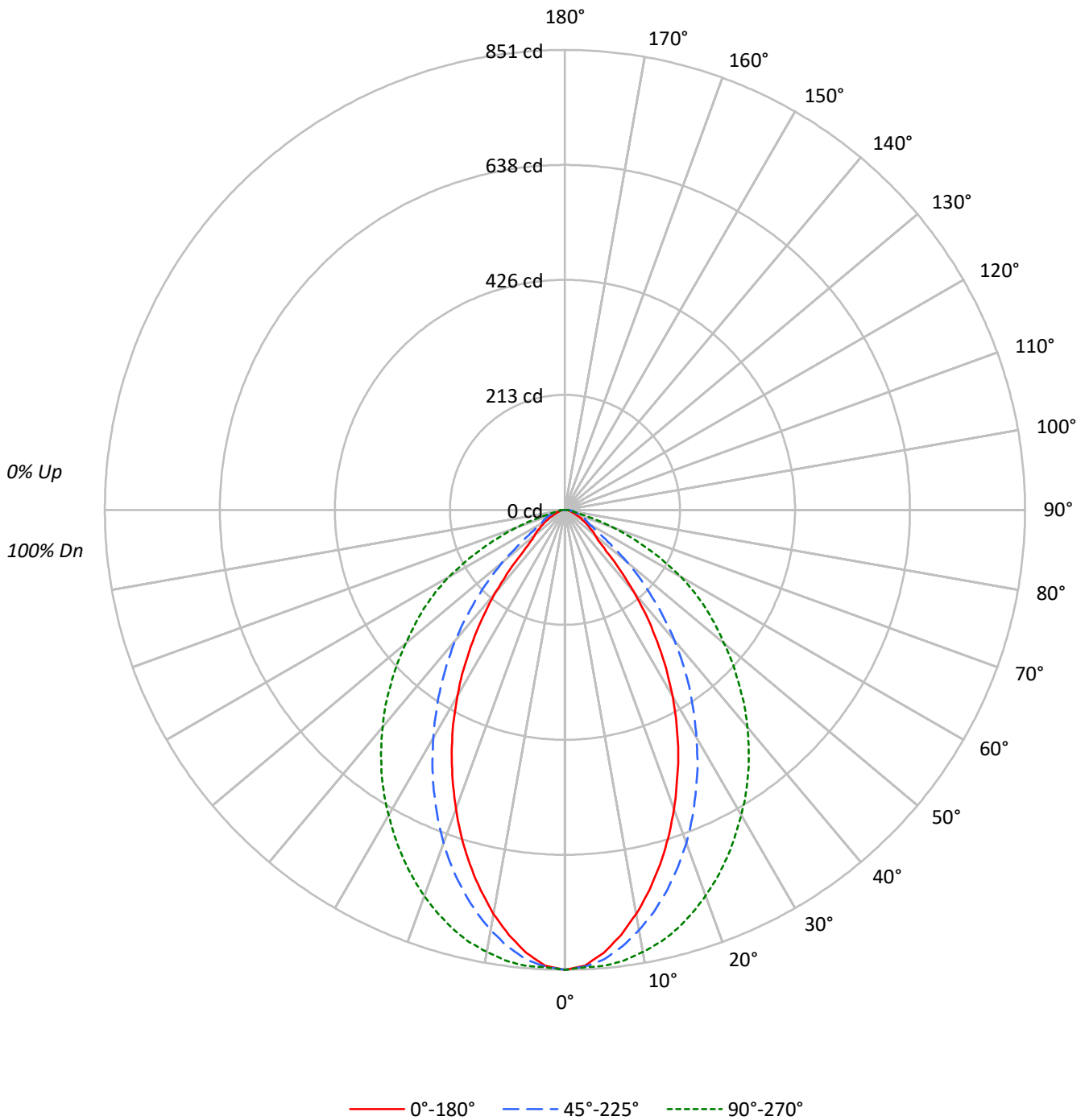
Lumens per Lamp: N/A
Luminaire Lumens: 1228.9 lumens
Efficiency: N/A
Efficacy: 35.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	5859	5859	5859
5°	5687	5770	5854
10°	5308	5520	5809
15°	4843	5196	5721
20°	4320	4808	5570
25°	3766	4356	5392
30°	3163	3869	5185
35°	2495	3369	4973
40°	1788	2831	4719
45°	1052	2222	4424
50°	779	1600	4109
55°	654	970	3817
60°	529	709	3405
65°	411	674	2731
70°	346	630	1850
75°	322	564	806
80°	321	559	519
85°	395	719	561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4424 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	6.4
10°-20°	206.0	16.8
20°-30°	269.2	21.9
30°-40°	262.1	21.3
40°-50°	195.9	15.9
50°-60°	121.5	9.9
60°-70°	63.8	5.2
70°-80°	23.2	1.9
80°-90°	8.8	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°	553.6	45.1
0°-40°	815.7	66.4
0°-60°	1133.0	92.2
0°-90°	1228.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1228.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	823	834	835	840	847	77
15°	679	700	729	773	803	190
25°	496	521	573	651	710	226
35°	297	329	401	508	592	185
45°	108	141	228	356	454	91
55°	54	58	81	210	318	49
65°	25	27	41	89	168	26
75°	12	14	21	23	30	13
85°	5	9	9	9	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.0	851.0	851.0	851.0	851.0
2.5°	844.0	851.0	846.0	846.0	847.0
5°	822.8	833.9	834.9	839.9	847.0
7.5°	793.5	806.6	814.7	829.8	840.9
10°	759.2	774.3	789.5	814.7	830.8
12.5°	720.8	739.0	761.2	795.5	818.7
15°	679.4	699.6	728.9	773.3	802.6
17.5°	636.0	657.2	693.6	747.1	782.4
20°	589.6	612.8	656.2	716.8	760.2
22.5°	542.1	568.4	615.8	684.5	736.0
25°	495.7	520.9	573.4	651.2	709.7
27.5°	447.2	473.5	531.0	616.8	681.4
30°	397.8	426.0	486.6	581.5	652.2
32.5°	348.3	377.6	443.2	545.1	622.9
35°	296.8	329.1	400.8	507.8	591.6
37.5°	248.3	282.7	357.4	469.4	558.3
40°	198.9	234.2	315.0	432.1	525.0
42.5°	150.4	186.8	271.6	393.7	491.6
45°	108.0	141.3	228.2	356.4	454.3
47.5°	82.8	102.0	187.8	318.0	421.0
50°	72.7	78.7	149.4	280.7	383.6
52.5°	63.6	67.6	111.0	244.3	351.3
55°	54.5	57.5	80.8	210.0	318.0
57.5°	46.4	49.5	61.6	178.7	283.7
60°	38.4	41.4	51.5	147.4	247.3
62.5°	32.3	33.3	46.4	118.1	207.0
65°	25.2	27.3	41.4	88.8	167.6
67.5°	21.2	22.2	36.3	63.6	129.2
70°	17.2	18.2	31.3	44.4	91.9
72.5°	15.1	15.1	26.2	32.3	58.6
75°	12.1	14.1	21.2	23.2	30.3
77.5°	10.1	14.1	18.2	17.2	16.2
80°	8.1	13.1	14.1	14.1	13.1
82.5°	7.1	11.1	12.1	11.1	10.1
85°	5.0	9.1	9.1	9.1	7.1
87.5°	4.0	8.1	7.1	7.1	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)