

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: P1061654

Luminaire Tested: S125RDR-S375D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061654
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-S375D935-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

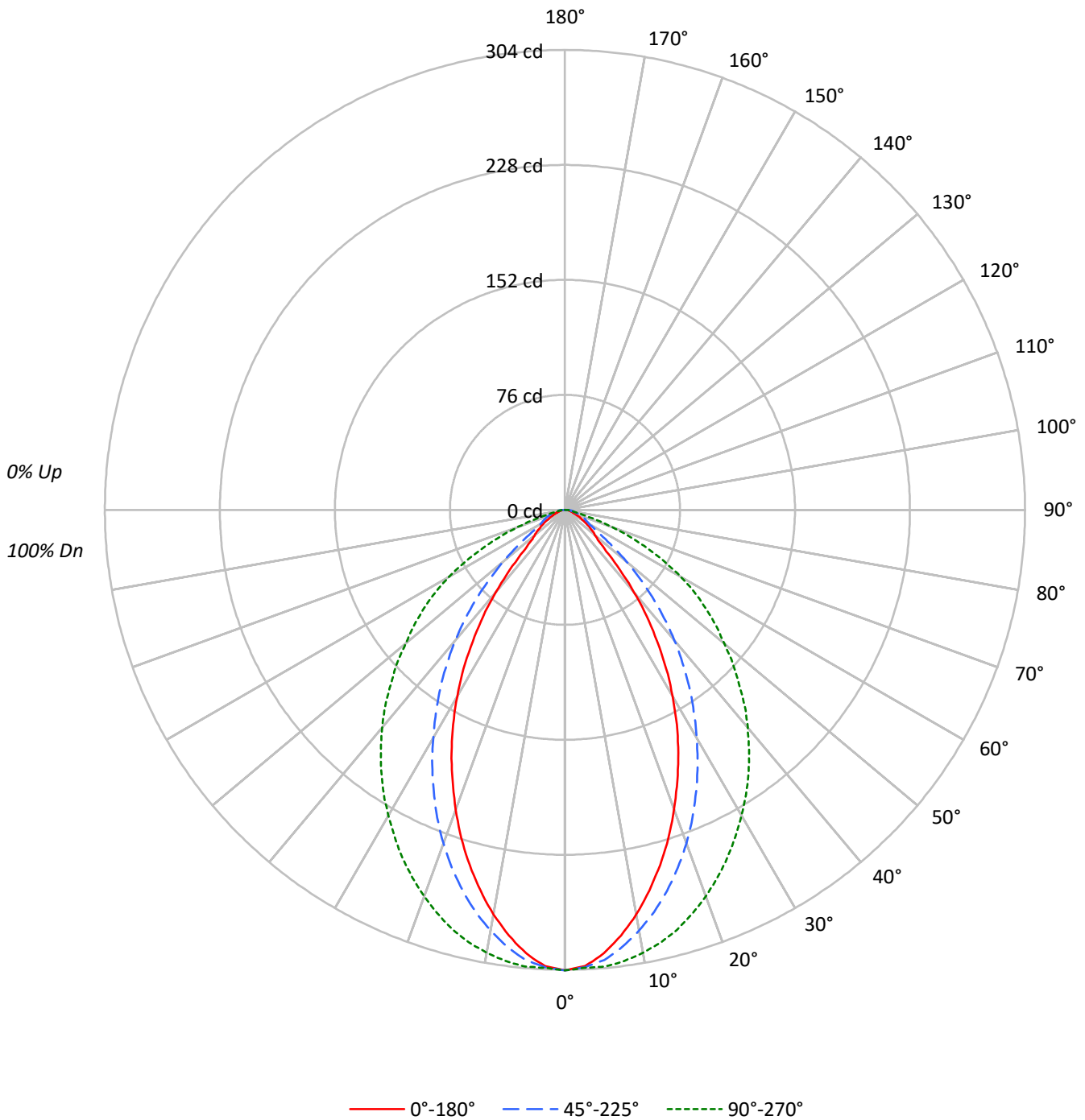
Lumens per Lamp: N/A
Luminaire Lumens: 439.5 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2096	2096	2096
5°	2034	2064	2094
10°	1898	1974	2078
15°	1732	1858	2046
20°	1545	1720	1992
25°	1347	1558	1929
30°	1131	1384	1855
35°	893	1205	1779
40°	639	1013	1688
45°	376	795	1582
50°	278	572	1470
55°	234	347	1365
60°	189	253	1219
65°	147	241	976
70°	123	225	662
75°	114	202	287
80°	115	202	186
85°	142	253	197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1582 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	6.4
10°-20°	73.7	16.8
20°-30°	96.3	21.9
30°-40°	93.7	21.3
40°-50°	70.1	15.9
50°-60°	43.4	9.9
60°-70°	22.8	5.2
70°-80°	8.3	1.9
80°-90°	3.1	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°	198.0	45.1
0°-40°	291.8	66.4
0°-60°	405.3	92.2
0°-90°	439.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	294	298	299	300	303	27
15°	243	250	261	277	287	68
25°	177	186	205	233	254	81
35°	106	118	143	182	212	66
45°	39	51	82	128	162	33
55°	20	21	29	75	114	18
65°	9	10	15	32	60	9
75°	4	5	8	8	11	5
85°	2	3	3	3	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	304.4	304.4	304.4	304.4	304.4
2.5°	301.9	304.4	302.6	302.6	303.0
5°	294.3	298.3	298.6	300.4	303.0
7.5°	283.8	288.5	291.4	296.8	300.8
10°	271.5	277.0	282.4	291.4	297.2
12.5°	257.8	264.3	272.3	284.5	292.9
15°	243.0	250.2	260.7	276.6	287.1
17.5°	227.5	235.1	248.1	267.2	279.9
20°	210.9	219.2	234.7	256.4	271.9
22.5°	193.9	203.3	220.3	244.8	263.2
25°	177.3	186.3	205.1	232.9	253.9
27.5°	160.0	169.4	189.9	220.6	243.7
30°	142.3	152.4	174.1	208.0	233.3
32.5°	124.6	135.1	158.5	195.0	222.8
35°	106.2	117.7	143.4	181.6	211.6
37.5°	88.8	101.1	127.8	167.9	199.7
40°	71.1	83.8	112.7	154.6	187.8
42.5°	53.8	66.8	97.1	140.8	175.9
45°	38.6	50.6	81.6	127.5	162.5
47.5°	29.6	36.5	67.2	113.7	150.6
50°	26.0	28.2	53.4	100.4	137.2
52.5°	22.7	24.2	39.7	87.4	125.7
55°	19.5	20.6	28.9	75.1	113.7
57.5°	16.6	17.7	22.0	63.9	101.5
60°	13.7	14.8	18.4	52.7	88.5
62.5°	11.6	11.9	16.6	42.2	74.0
65°	9.0	9.7	14.8	31.8	59.9
67.5°	7.6	7.9	13.0	22.7	46.2
70°	6.1	6.5	11.2	15.9	32.9
72.5°	5.4	5.4	9.4	11.6	20.9
75°	4.3	5.1	7.6	8.3	10.8
77.5°	3.6	5.1	6.5	6.1	5.8
80°	2.9	4.7	5.1	5.1	4.7
82.5°	2.5	4.0	4.3	4.0	3.6
85°	1.8	3.2	3.2	3.2	2.5
87.5°	1.4	2.9	2.5	2.5	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)