

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S125RDRP-S375D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

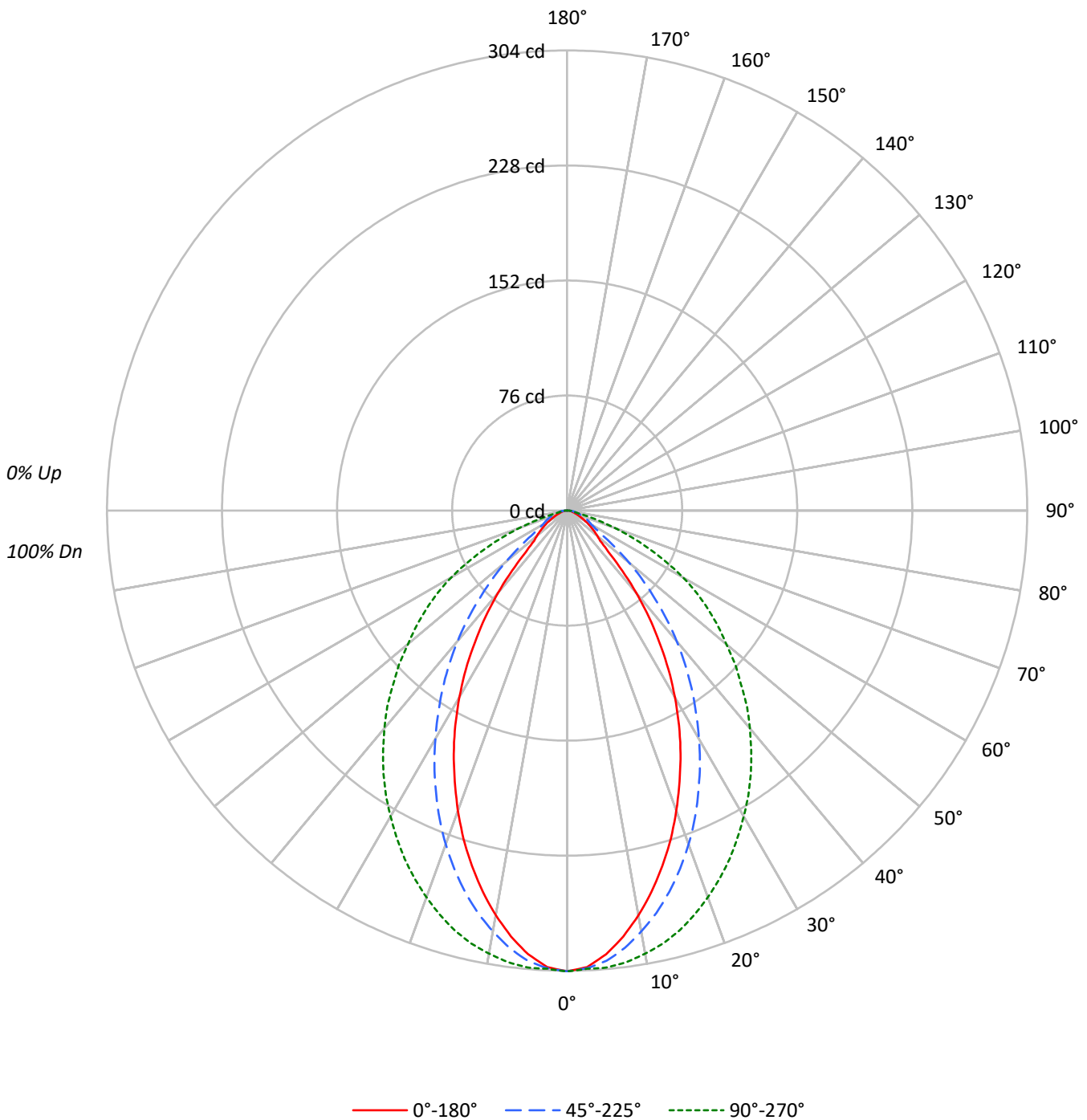
Lumens per Lamp: N/A
Luminaire Lumens: 439.5 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): 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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	2.36	3.71	2.72	4.02	4.34	12.06	13.41	12.43	13.72	14.04
	3H	3.19	4.39	3.57	4.72	5.09	12.97	14.17	13.35	14.50	14.87
	4H	3.55	4.67	3.95	5.02	5.40	13.07	14.19	13.47	14.54	14.92
	6H	3.93	4.95	4.34	5.32	5.72	13.06	14.08	13.47	14.45	14.85
	8H	4.11	5.08	4.54	5.47	5.87	13.04	14.02	13.47	14.41	14.81
	12H	4.27	5.20	4.70	5.58	6.01	13.03	13.96	13.46	14.34	14.77
4H	2H	3.19	4.30	3.59	4.65	5.04	11.91	13.03	12.31	13.38	13.76
	3H	4.24	5.16	4.65	5.56	5.96	12.90	13.82	13.31	14.22	14.62
	4H	4.70	5.52	5.14	5.94	6.38	13.03	13.85	13.46	14.27	14.71
	6H	5.26	5.97	5.72	6.41	6.88	13.06	13.77	13.52	14.21	14.68
	8H	5.52	6.18	5.99	6.63	7.10	13.06	13.72	13.53	14.17	14.64
	12H	5.76	6.34	6.24	6.82	7.30	13.07	13.65	13.56	14.14	14.61
8H	4H	5.26	5.92	5.73	6.36	6.83	12.95	13.61	13.42	14.06	14.53
	6H	6.04	6.58	6.54	7.08	7.56	13.02	13.55	13.52	14.05	14.53
	8H	6.46	6.94	6.98	7.46	7.95	13.04	13.53	13.57	14.04	14.54
	12H	6.87	7.29	7.38	7.79	8.36	13.10	13.52	13.61	14.02	14.59
12H	4H	5.32	5.90	5.81	6.39	6.86	12.92	13.50	13.41	13.99	14.46
	6H	6.18	6.67	6.71	7.18	7.68	12.98	13.47	13.50	13.98	14.47
	8H	6.71	7.14	7.22	7.63	8.20	13.05	13.47	13.56	13.97	14.54