

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: P1059225

Luminaire Tested: S123RDRP-S340D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S340D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

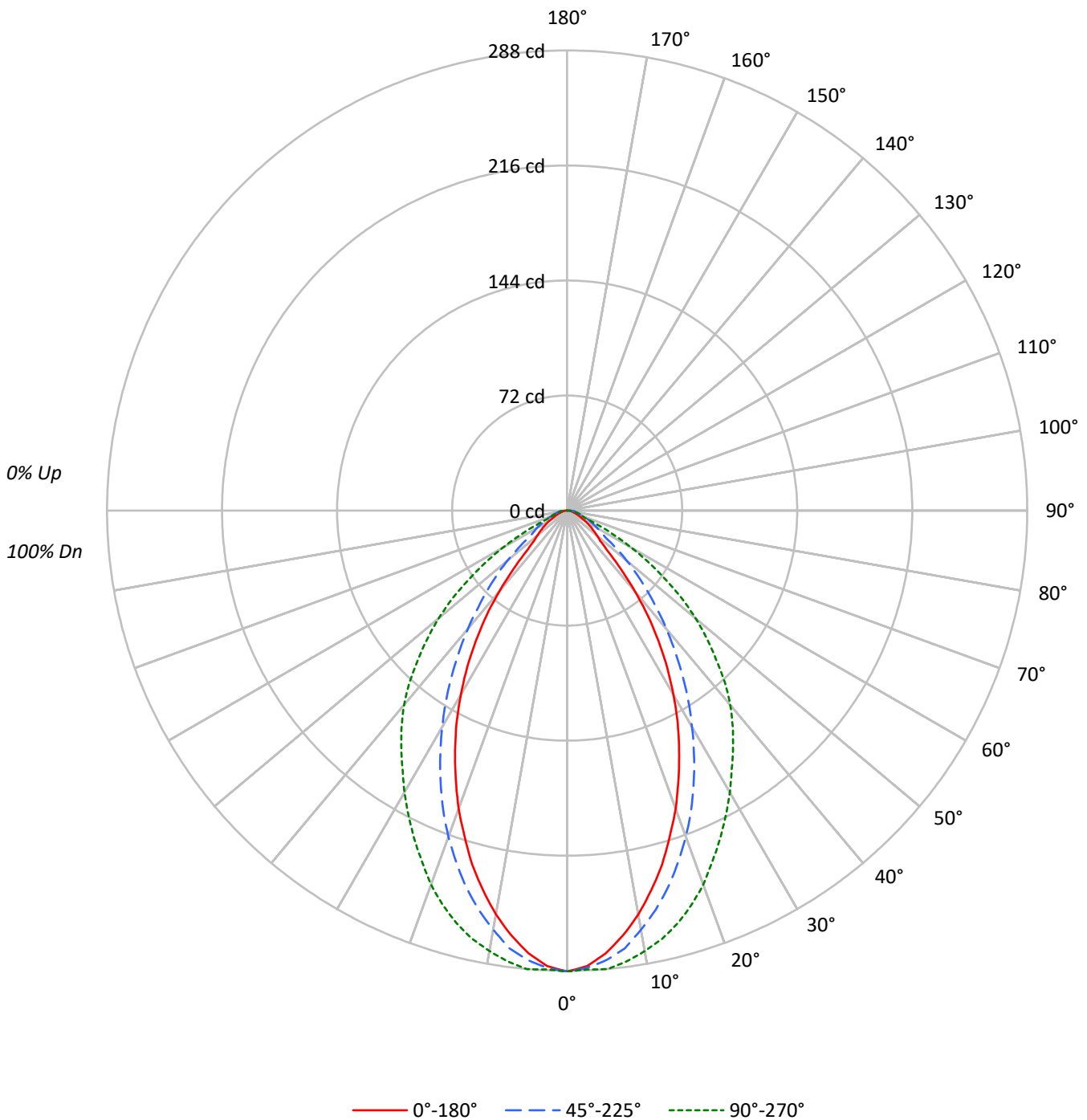
Lumens per Lamp: N/A
Luminaire Lumens: 387.3 lumens
Efficiency: N/A
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3388	3388	3388
5°	3278	3329	3396
10°	3060	3175	3337
15°	2789	2967	3251
20°	2480	2714	3113
25°	2149	2428	2935
30°	1803	2119	2761
35°	1428	1803	2595
40°	1010	1484	2434
45°	595	1172	2190
50°	446	890	1918
55°	375	602	1542
60°	303	514	1094
65°	239	439	578
70°	209	381	357
75°	195	358	340
80°	196	385	338
85°	243	579	431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2190 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	6.9
10°-20°	69.0	17.8
20°-30°	87.9	22.7
30°-40°	82.7	21.3
40°-50°	59.5	15.4
50°-60°	34.4	8.9
60°-70°	15.7	4.1
70°-80°	7.8	2.0
80°-90°	3.7	1.0
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°	183.4	47.4
0°-40°	266.1	68.7
0°-60°	360.0	93.0
0°-90°	387.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	387.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	288	288	288	288	288	
5°	278	283	282	285	288	26
15°	229	238	244	258	267	64
25°	166	174	187	208	226	76
35°	100	108	126	155	181	62
45°	36	45	71	106	132	30
55°	18	19	29	56	75	16
65°	9	12	16	18	21	9
75°	4	8	8	8	8	5
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	288.5	288.5	288.5	288.5	288.5
2.5°	285.3	288.9	286.4	286.7	287.4
5°	278.1	282.8	282.4	285.3	288.1
7.5°	268.1	273.5	276.3	280.6	284.6
10°	256.6	262.7	266.3	274.2	279.9
12.5°	243.3	251.2	255.9	266.3	274.5
15°	229.4	237.6	244.1	257.7	267.4
17.5°	213.6	222.6	230.8	246.9	258.8
20°	198.5	207.1	217.2	234.7	249.1
22.5°	182.1	191.4	202.8	221.5	237.6
25°	165.9	174.5	187.4	208.2	226.5
27.5°	149.8	158.4	172.0	195.0	215.0
30°	133.0	141.9	156.3	181.7	203.6
32.5°	116.5	125.1	141.2	168.8	191.7
35°	99.6	108.2	125.8	154.8	181.0
37.5°	83.1	92.1	110.7	143.4	170.2
40°	65.9	75.6	96.8	131.5	158.8
42.5°	49.8	60.2	82.8	119.3	146.2
45°	35.8	44.8	70.6	106.1	131.9
47.5°	28.0	32.6	59.5	92.5	118.6
50°	24.4	25.1	48.7	79.9	105.0
52.5°	21.1	21.9	38.3	68.1	90.7
55°	18.3	19.0	29.4	55.9	75.3
57.5°	15.4	16.5	24.4	44.4	60.6
60°	12.9	14.3	21.9	34.0	46.6
62.5°	10.4	12.9	18.6	25.1	33.3
65°	8.6	12.2	15.8	17.6	20.8
67.5°	7.2	11.1	13.3	12.5	12.2
70°	6.1	10.0	11.1	10.0	10.4
72.5°	5.0	9.3	9.3	8.6	8.6
75°	4.3	8.2	7.9	7.5	7.5
77.5°	3.6	7.2	6.8	6.5	6.1
80°	2.9	5.7	5.7	5.4	5.0
82.5°	2.5	4.7	4.7	4.7	3.9
85°	1.8	3.9	4.3	3.9	3.2
87.5°	1.4	3.6	3.6	3.2	2.2
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	4.21	5.53	4.58	5.84	6.16	11.57	12.89	11.93	13.20	13.52
	3H	5.60	6.77	5.98	7.10	7.47	11.80	12.97	12.18	13.30	13.66
	4H	6.15	7.24	6.55	7.59	7.97	11.91	13.00	12.32	13.35	13.74
	6H	6.59	7.59	7.00	7.96	8.36	12.03	13.03	12.44	13.40	13.79
	8H	6.77	7.72	7.20	8.11	8.51	12.08	13.03	12.51	13.42	13.82
	12H	6.92	7.83	7.35	8.21	8.64	12.14	13.04	12.57	13.43	13.86
4H	2H	5.32	6.41	5.72	6.76	7.14	11.53	12.62	11.93	12.97	13.35
	3H	6.97	7.87	7.39	8.27	8.67	11.89	12.78	12.30	13.18	13.59
	4H	7.78	8.58	8.21	9.00	9.44	12.08	12.88	12.52	13.30	13.74
	6H	8.42	9.11	8.88	9.55	10.02	12.31	13.00	12.78	13.45	13.92
	8H	8.65	9.30	9.12	9.75	10.22	12.42	13.06	12.88	13.51	13.98
	12H	8.87	9.44	9.35	9.92	10.40	12.54	13.11	13.03	13.60	14.07
8H	4H	8.22	8.87	8.69	9.31	9.78	12.12	12.77	12.59	13.21	13.68
	6H	9.13	9.66	9.63	10.16	10.64	12.45	12.98	12.95	13.48	13.96
	8H	9.56	10.03	10.08	10.55	11.04	12.64	13.12	13.16	13.63	14.13
	12H	9.97	10.39	10.49	10.89	11.46	12.89	13.31	13.40	13.81	14.38
12H	4H	8.28	8.85	8.76	9.33	9.81	12.11	12.68	12.60	13.16	13.64
	6H	9.27	9.75	9.79	10.26	10.75	12.47	12.95	12.99	13.46	13.95
	8H	9.81	10.23	10.33	10.73	11.30	12.73	13.15	13.24	13.64	14.21