

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: P1059059

Luminaire Tested: S123RDRP-S1000D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-69)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

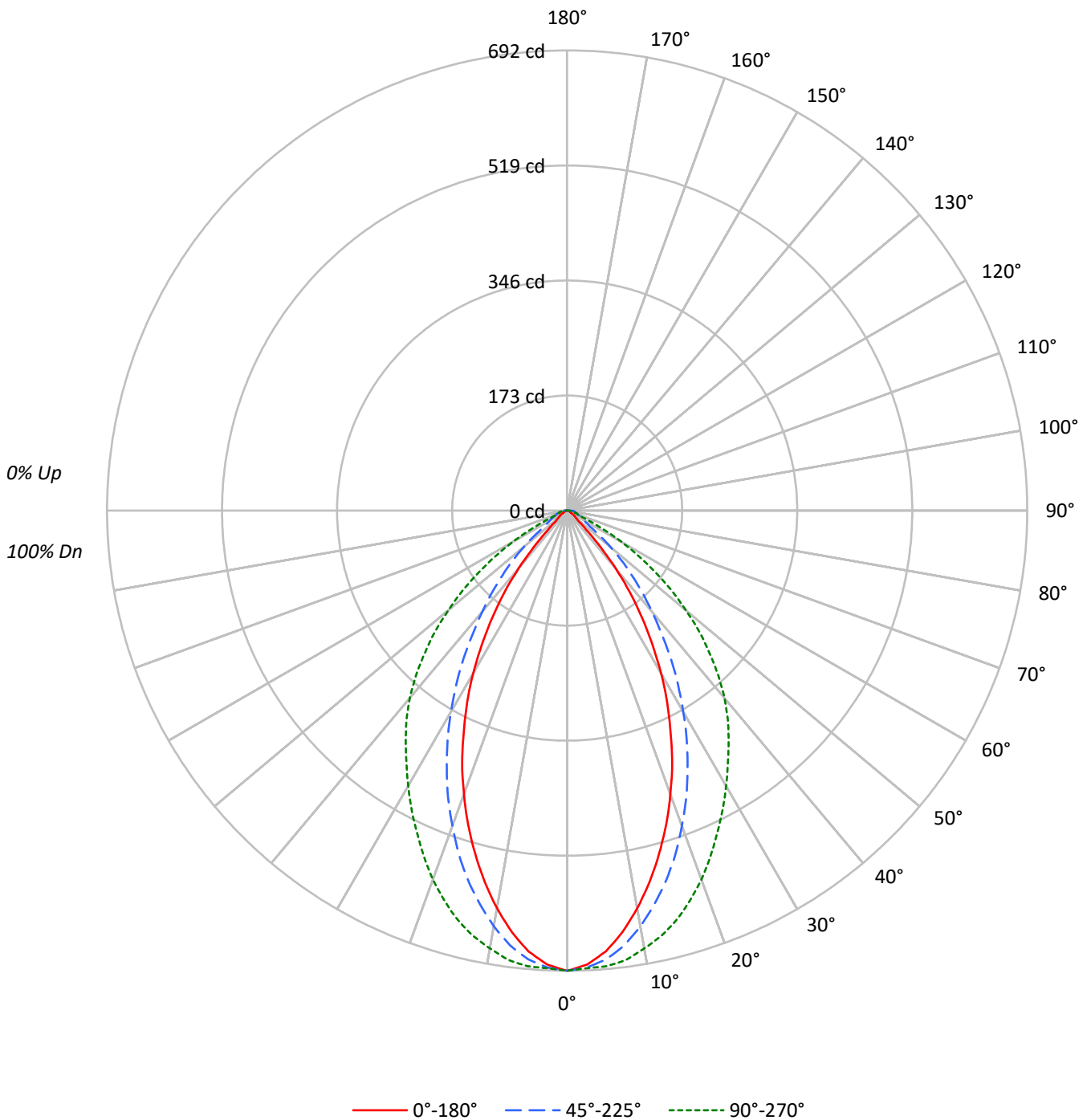
Lumens per Lamp: N/A
Luminaire Lumens: 831.2 lumens
Efficiency: N/A
Efficacy: 23.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.06 / 0.94
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	61	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8126	8126	8126
5°	7844	7982	8106
10°	7241	7569	7973
15°	6495	6997	7744
20°	5672	6307	7378
25°	4771	5552	6923
30°	3830	4735	6484
35°	2805	3898	6067
40°	1735	3034	5644
45°	668	2283	5025
50°	329	1566	4253
55°	260	866	3335
60°	174	721	2236
65°	147	647	1000
70°	144	580	580
75°	191	626	576
80°	284	784	642
85°	431	1280	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	7.6
10°-20°	162.4	19.5
20°-30°	201.6	24.3
30°-40°	180.6	21.7
40°-50°	118.7	14.3
50°-60°	59.5	7.2
60°-70°	23.5	2.8
70°-80°	13.1	1.6
80°-90°	8.3	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°	427.5	51.4
0°-40°	608.1	73.2
0°-60°	786.3	94.6
0°-90°	831.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	831.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	666	676	677	681	688	62
15°	534	551	576	615	637	149
25°	368	392	428	489	534	168
35°	196	222	272	356	423	121
45°	40	67	138	232	303	38
55°	13	15	42	114	163	11
65°	5	15	23	30	36	5
75°	4	14	14	13	13	4
85°	3	10	10	10	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692.0	692.0	692.0	692.0	692.0
2.5°	683.5	693.0	687.7	687.7	688.8
5°	665.5	676.1	677.2	681.4	687.7
7.5°	639.1	652.8	659.2	671.9	681.4
10°	607.3	622.1	634.8	657.1	668.7
12.5°	572.4	587.2	606.3	637.0	654.9
15°	534.3	551.3	575.6	614.7	637.0
17.5°	495.2	512.1	541.7	586.2	614.7
20°	453.9	473.0	504.7	555.5	590.4
22.5°	412.6	433.8	467.7	522.7	562.9
25°	368.2	391.5	428.5	488.8	534.3
27.5°	325.9	350.2	389.4	455.0	506.8
30°	282.5	306.8	349.2	420.1	478.2
32.5°	238.1	265.6	310.0	387.3	449.7
35°	195.7	222.2	271.9	355.5	423.2
37.5°	154.5	180.9	232.8	324.8	396.8
40°	113.2	140.7	197.9	295.2	368.2
42.5°	74.1	102.6	167.2	265.6	336.5
45°	40.2	66.7	137.5	231.7	302.6
47.5°	22.2	36.0	111.1	200.0	269.8
50°	18.0	20.1	85.7	170.3	232.8
52.5°	14.8	16.9	61.4	141.8	198.9
55°	12.7	14.8	42.3	114.3	162.9
57.5°	10.6	12.7	33.9	87.8	128.0
60°	7.4	12.7	30.7	64.5	95.2
62.5°	6.3	12.7	26.5	44.4	63.5
65°	5.3	14.8	23.3	29.6	36.0
67.5°	4.2	14.8	20.1	19.0	19.0
70°	4.2	14.8	16.9	15.9	16.9
72.5°	4.2	15.9	15.9	14.8	14.8
75°	4.2	13.8	13.8	12.7	12.7
77.5°	4.2	12.7	12.7	11.6	11.6
80°	4.2	11.6	11.6	10.6	9.5
82.5°	4.2	10.6	10.6	9.5	8.5
85°	3.2	9.5	9.5	9.5	6.3
87.5°	3.2	8.5	9.5	8.5	5.3
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	0.00	1.00	0.11	1.31	1.63	13.82	15.08	14.19	15.39	15.71
	3H	2.25	3.37	2.63	3.70	4.06	13.90	15.01	14.28	15.35	15.71
	4H	3.42	4.46	3.82	4.81	5.19	13.97	15.00	14.37	15.35	15.74
	6H	4.47	5.42	4.88	5.79	6.18	14.06	15.01	14.48	15.38	15.78
	8H	5.00	5.90	5.43	6.29	6.70	14.12	15.02	14.55	15.41	15.82
	12H	5.49	6.35	5.92	6.73	7.16	14.19	15.05	14.63	15.44	15.87
4H	2H	3.00	4.04	3.41	4.39	4.78	13.68	14.72	14.09	15.07	15.46
	3H	5.46	6.31	5.87	6.71	7.11	13.86	14.70	14.27	15.11	15.51
	4H	6.81	7.57	7.25	7.99	8.43	13.99	14.74	14.42	15.16	15.61
	6H	7.93	8.59	8.40	9.04	9.50	14.20	14.85	14.66	15.30	15.77
	8H	8.44	9.05	8.91	9.50	9.97	14.33	14.94	14.80	15.38	15.86
	12H	8.90	9.44	9.39	9.92	10.40	14.48	15.02	14.97	15.51	15.98
8H	4H	7.73	8.34	8.20	8.79	9.26	13.99	14.60	14.46	15.05	15.52
	6H	9.32	9.82	9.82	10.32	10.80	14.32	14.82	14.82	15.32	15.80
	8H	10.14	10.60	10.67	11.11	11.60	14.55	15.00	15.07	15.51	16.01
	12H	10.92	11.32	11.44	11.82	12.39	14.87	15.27	15.39	15.76	16.34
12H	4H	7.89	8.43	8.38	8.92	9.39	13.98	14.52	14.47	15.00	15.48
	6H	9.63	10.08	10.16	10.60	11.09	14.35	14.80	14.87	15.32	15.81
	8H	10.64	11.04	11.16	11.54	12.11	14.66	15.06	15.17	15.55	16.13