

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: P1059386

Luminaire Tested: S123RDRP-S775D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S775D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 3 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

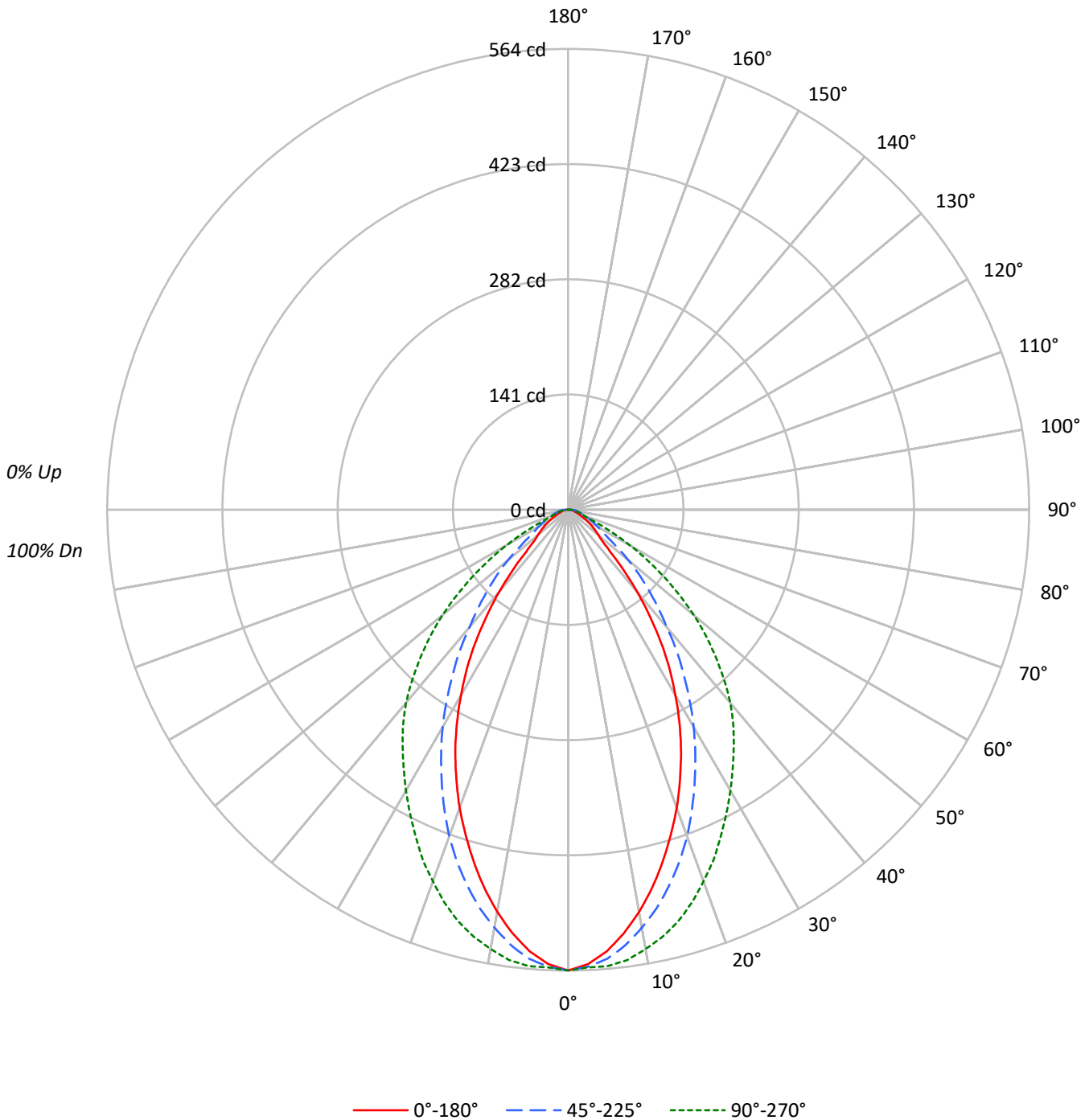
Lumens per Lamp: N/A
Luminaire Lumens: 755.2 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	101	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	91	81	74	69	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	61	69	64	60	68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	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	56	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	50	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6622	6622	6622
5°	6395	6501	6608
10°	5958	6193	6508
15°	5424	5794	6335
20°	4855	5318	6048
25°	4234	4746	5716
30°	3561	4164	5380
35°	2833	3528	5062
40°	2019	2877	4732
45°	1202	2310	4238
50°	888	1759	3670
55°	741	1196	2915
60°	599	986	2050
65°	481	847	1098
70°	395	735	680
75°	372	708	635
80°	392	778	615
85°	552	1105	781

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4238 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	6.9
10°-20°	134.6	17.8
20°-30°	171.6	22.7
30°-40°	161.5	21.4
40°-50°	116.0	15.4
50°-60°	66.5	8.8
60°-70°	30.4	4.0
70°-80°	15.3	2.0
80°-90°	7.5	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°	358.0	47.4
0°-40°	519.5	68.8
0°-60°	702.0	93.0
0°-90°	755.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	542	553	552	556	561	50
15°	446	462	477	502	521	125
25°	327	342	366	406	441	149
35°	198	212	246	302	353	122
45°	72	88	139	205	255	61
55°	36	37	58	108	142	32
65°	17	24	30	34	40	17
75°	8	16	16	14	14	9
85°	4	8	8	7	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.9	563.9	563.9	563.9	563.9
2.5°	556.5	564.7	559.8	559.8	560.6
5°	542.5	553.2	551.5	555.7	560.6
7.5°	522.7	534.3	537.5	547.4	555.7
10°	499.7	512.8	519.4	535.1	545.8
12.5°	474.2	489.0	499.7	519.4	535.1
15°	446.2	461.8	476.6	502.1	521.1
17.5°	417.4	433.0	451.9	481.6	503.8
20°	388.5	404.2	425.6	456.9	484.0
22.5°	357.3	372.9	396.0	431.4	464.3
25°	326.8	341.6	366.3	405.8	441.2
27.5°	294.7	309.5	336.7	379.5	419.0
30°	262.6	277.4	307.1	353.1	396.8
32.5°	230.5	244.5	276.6	327.6	374.6
35°	197.6	211.6	246.1	302.1	353.1
37.5°	163.8	177.8	218.1	279.1	331.7
40°	131.7	147.4	187.7	256.0	308.7
42.5°	100.4	116.9	163.0	231.3	282.4
45°	72.4	88.1	139.1	205.0	255.2
47.5°	55.2	63.4	117.7	178.6	228.8
50°	48.6	49.4	96.3	154.8	200.9
52.5°	42.0	42.8	74.9	131.7	171.2
55°	36.2	37.0	58.4	107.8	142.4
57.5°	30.5	32.1	47.7	85.6	114.4
60°	25.5	28.8	42.0	65.0	87.3
62.5°	20.6	26.3	36.2	47.7	62.6
65°	17.3	23.9	30.5	33.8	39.5
67.5°	14.0	22.2	25.5	23.9	23.9
70°	11.5	19.8	21.4	19.8	19.8
72.5°	9.9	18.9	18.1	16.5	16.5
75°	8.2	16.5	15.6	14.0	14.0
77.5°	7.4	14.0	13.2	12.3	11.5
80°	5.8	11.5	11.5	10.7	9.1
82.5°	4.9	9.9	9.9	9.1	7.4
85°	4.1	8.2	8.2	7.4	5.8
87.5°	3.3	7.4	7.4	6.6	4.1
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	6.55	7.87	6.92	8.18	8.50	13.77	15.09	14.14	15.40	15.72
	3H	7.95	9.12	8.33	9.45	9.82	14.01	15.18	14.39	15.51	15.88
	4H	8.51	9.60	8.92	9.95	10.34	14.12	15.21	14.52	15.56	15.94
	6H	8.97	9.98	9.39	10.35	10.74	14.23	15.23	14.64	15.60	15.99
	8H	9.16	10.11	9.59	10.50	10.90	14.27	15.22	14.70	15.61	16.02
	12H	9.35	10.26	9.78	10.64	11.07	14.33	15.23	14.76	15.62	16.05
4H	2H	7.63	8.72	8.03	9.07	9.45	13.74	14.83	14.14	15.18	15.56
	3H	9.32	10.21	9.73	10.61	11.02	14.11	15.00	14.52	15.40	15.81
	4H	10.15	10.95	10.59	11.37	11.81	14.29	15.09	14.72	15.51	15.95
	6H	10.81	11.50	11.27	11.95	12.41	14.51	15.20	14.97	15.65	16.11
	8H	11.06	11.71	11.53	12.16	12.63	14.61	15.26	15.08	15.71	16.18
	12H	11.32	11.89	11.80	12.37	12.85	14.73	15.30	15.22	15.78	16.26
8H	4H	10.59	11.23	11.06	11.68	12.15	14.33	14.98	14.80	15.43	15.90
	6H	11.54	12.07	12.04	12.56	13.04	14.67	15.20	15.17	15.69	16.17
	8H	12.00	12.48	12.52	12.99	13.49	14.86	15.33	15.38	15.85	16.34
	12H	12.48	12.90	12.99	13.39	13.97	15.09	15.51	15.61	16.01	16.58
12H	4H	10.65	11.22	11.13	11.70	12.17	14.33	14.90	14.81	15.38	15.86
	6H	11.68	12.16	12.21	12.68	13.17	14.69	15.17	15.21	15.69	16.18
	8H	12.28	12.70	12.79	13.19	13.77	14.95	15.38	15.47	15.87	16.44