

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: P1059368

Luminaire Tested: S123RDRP-S775D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059368
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-S775D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

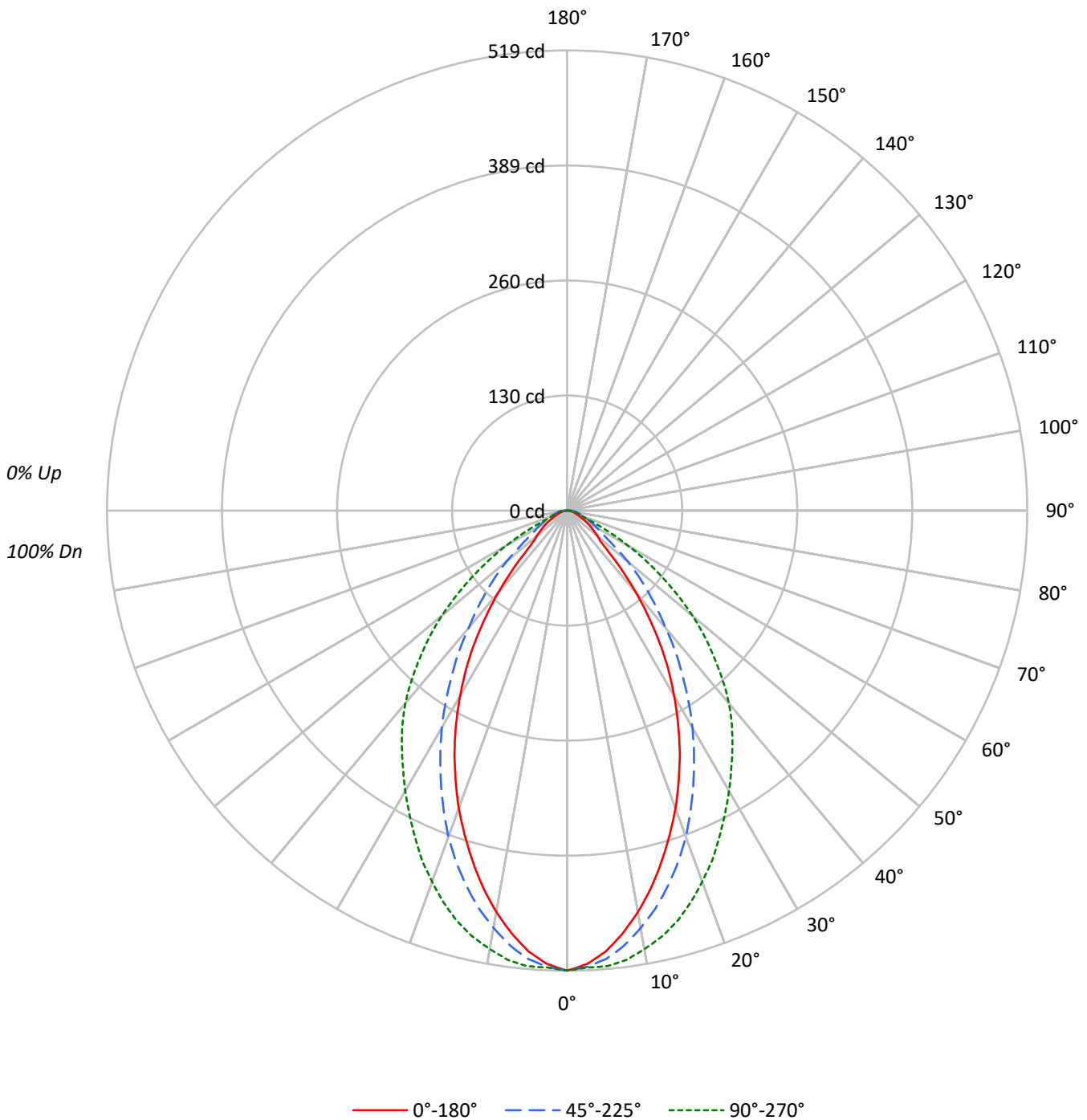
Lumens per Lamp: N/A
Luminaire Lumens: 694.8 lumens
Efficiency: N/A
Efficacy: 26.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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	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°	6092	6092	6092
5°	5883	5982	6080
10°	5481	5698	5988
15°	4990	5331	5828
20°	4467	4893	5566
25°	3896	4366	5260
30°	3276	3830	4950
35°	2606	3247	4657
40°	1858	2647	4353
45°	1108	2126	3899
50°	817	1619	3376
55°	682	1101	2682
60°	552	907	1886
65°	442	778	1011
70°	364	676	625
75°	345	653	585
80°	358	717	561
85°	512	1024	714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3899 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	6.9
10°-20°	123.8	17.8
20°-30°	157.9	22.7
30°-40°	148.6	21.4
40°-50°	106.8	15.4
50°-60°	61.2	8.8
60°-70°	28.0	4.0
70°-80°	14.1	2.0
80°-90°	6.9	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°	329.4	47.4
0°-40°	478.0	68.8
0°-60°	645.9	93.0
0°-90°	694.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	519	519	519	519	519	
5°	499	509	508	511	516	46
15°	410	425	438	462	479	115
25°	301	314	337	373	406	137
35°	182	195	226	278	325	113
45°	67	81	128	189	235	56
55°	33	34	54	99	131	30
65°	16	22	28	31	36	16
75°	8	15	14	13	13	8
85°	4	8	8	7	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	518.8	518.8	518.8	518.8	518.8
2.5°	512.0	519.6	515.0	515.0	515.8
5°	499.1	509.0	507.5	511.2	515.8
7.5°	480.9	491.6	494.6	503.7	511.2
10°	459.7	471.9	477.9	492.3	502.2
12.5°	436.3	449.9	459.7	477.9	492.3
15°	410.5	424.9	438.5	462.0	479.4
17.5°	384.0	398.4	415.8	443.1	463.5
20°	357.5	371.9	391.6	420.4	445.4
22.5°	328.7	343.1	364.3	396.9	427.2
25°	300.7	314.3	337.0	373.4	406.0
27.5°	271.1	284.8	309.8	349.2	385.5
30°	241.6	255.2	282.5	324.9	365.1
32.5°	212.1	224.9	254.5	301.4	344.6
35°	181.8	194.7	226.5	278.0	324.9
37.5°	150.7	163.6	200.7	256.8	305.2
40°	121.2	135.6	172.7	235.6	284.0
42.5°	92.4	107.6	150.0	212.8	259.8
45°	66.7	81.0	128.0	188.6	234.8
47.5°	50.7	58.3	108.3	164.4	210.6
50°	44.7	45.4	88.6	142.4	184.8
52.5°	38.6	39.4	68.9	121.2	157.5
55°	33.3	34.1	53.8	99.2	131.0
57.5°	28.0	29.5	43.9	78.8	105.3
60°	23.5	26.5	38.6	59.8	80.3
62.5°	18.9	24.2	33.3	43.9	57.6
65°	15.9	22.0	28.0	31.1	36.4
67.5°	12.9	20.4	23.5	22.0	22.0
70°	10.6	18.2	19.7	18.2	18.2
72.5°	9.1	17.4	16.7	15.1	15.1
75°	7.6	15.1	14.4	12.9	12.9
77.5°	6.8	12.9	12.1	11.4	10.6
80°	5.3	10.6	10.6	9.8	8.3
82.5°	4.5	9.1	9.1	8.3	6.8
85°	3.8	7.6	7.6	6.8	5.3
87.5°	3.0	6.8	6.8	6.1	3.8
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	6.25	7.57	6.62	7.89	8.20	13.49	14.81	13.85	15.12	15.43
	3H	7.66	8.83	8.04	9.16	9.52	13.72	14.89	14.10	15.22	15.59
	4H	8.22	9.31	8.62	9.66	10.04	13.83	14.92	14.23	15.27	15.66
	6H	8.68	9.68	9.09	10.05	10.45	13.94	14.94	14.35	15.31	15.70
	8H	8.86	9.81	9.29	10.20	10.61	13.99	14.93	14.42	15.33	15.73
	12H	9.05	9.96	9.49	10.34	10.78	14.04	14.94	14.47	15.33	15.76
4H	2H	7.33	8.42	7.73	8.77	9.15	13.45	14.54	13.85	14.89	15.27
	3H	9.02	9.91	9.43	10.32	10.72	13.82	14.71	14.23	15.11	15.52
	4H	9.85	10.65	10.29	11.07	11.51	14.00	14.80	14.44	15.22	15.66
	6H	10.51	11.20	10.98	11.65	12.12	14.22	14.91	14.69	15.36	15.83
	8H	10.77	11.41	11.24	11.86	12.33	14.32	14.97	14.79	15.42	15.89
	12H	11.02	11.59	11.51	12.08	12.55	14.44	15.01	14.92	15.49	15.97
8H	4H	10.29	10.94	10.76	11.38	11.85	14.05	14.69	14.52	15.14	15.61
	6H	11.24	11.77	11.75	12.27	12.75	14.38	14.91	14.88	15.40	15.88
	8H	11.71	12.19	12.23	12.70	13.19	14.57	15.04	15.09	15.56	16.05
	12H	12.19	12.61	12.70	13.11	13.68	14.80	15.22	15.31	15.71	16.29
12H	4H	10.35	10.92	10.84	11.40	11.88	14.04	14.61	14.53	15.09	15.57
	6H	11.39	11.87	11.91	12.38	12.88	14.40	14.88	14.93	15.40	15.89
	8H	11.98	12.41	12.50	12.90	13.47	14.66	15.09	15.18	15.58	16.15