

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: P1059404

Luminaire Tested: S123RDRP-S775D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059404
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-S775D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

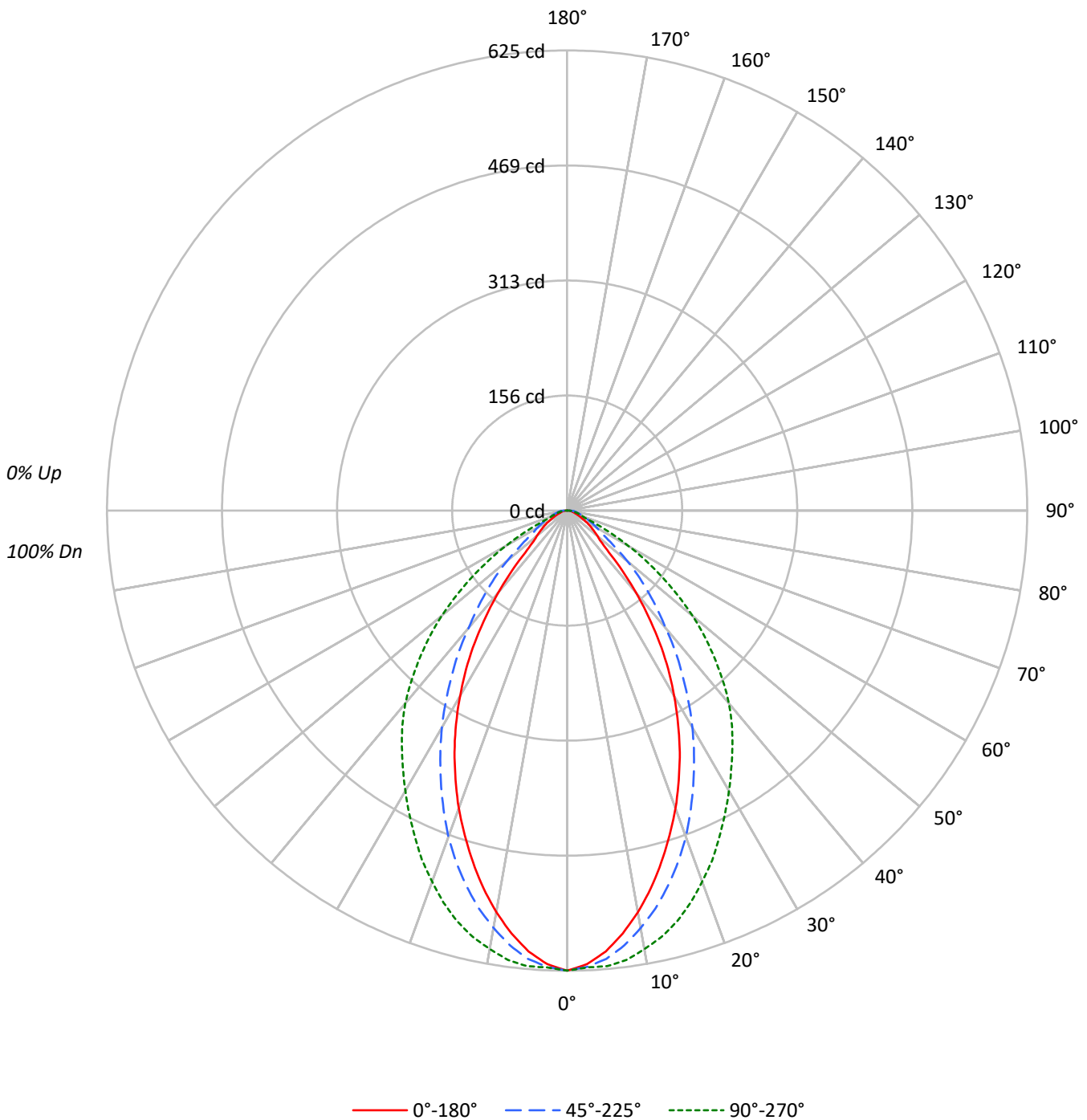
Lumens per Lamp: N/A
Luminaire Lumens: 836.8 lumens
Efficiency: N/A
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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°	7337	7337	7337
5°	7085	7203	7321
10°	6602	6862	7210
15°	6010	6420	7019
20°	5380	5893	6702
25°	4691	5259	6334
30°	3946	4613	5961
35°	3138	3909	5609
40°	2236	3188	5242
45°	1333	2559	4696
50°	983	1949	4066
55°	821	1327	3231
60°	665	1092	2271
65°	533	936	1217
70°	439	814	752
75°	413	785	703
80°	433	866	676
85°	620	1226	862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4696 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	6.9
10°-20°	149.1	17.8
20°-30°	190.2	22.7
30°-40°	178.9	21.4
40°-50°	128.6	15.4
50°-60°	73.7	8.8
60°-70°	33.7	4.0
70°-80°	16.9	2.0
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°	396.7	47.4
0°-40°	575.6	68.8
0°-60°	777.9	93.0
0°-90°	836.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	601	613	611	616	621	56
15°	494	512	528	556	577	138
25°	362	378	406	450	489	165
35°	219	234	273	335	391	136
45°	80	98	154	227	283	67
55°	40	41	65	120	158	36
65°	19	26	34	37	44	19
75°	9	18	17	16	16	10
85°	5	9	9	8	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	624.8	624.8	624.8	624.8	624.8
2.5°	616.6	625.7	620.2	620.2	621.1
5°	601.1	612.9	611.1	615.7	621.1
7.5°	579.2	592.0	595.6	606.6	615.7
10°	553.7	568.2	575.5	592.9	604.7
12.5°	525.4	541.8	553.7	575.5	592.9
15°	494.4	511.7	528.1	556.4	577.4
17.5°	462.4	479.8	500.7	533.6	558.2
20°	430.5	447.8	471.6	506.2	536.3
22.5°	395.9	413.2	438.7	477.9	514.4
25°	362.1	378.5	405.9	449.7	488.9
27.5°	326.5	343.0	373.1	420.5	464.3
30°	291.0	307.4	340.2	391.3	439.6
32.5°	255.4	270.9	306.5	363.0	415.0
35°	218.9	234.4	272.7	334.7	391.3
37.5°	181.5	197.0	241.7	309.2	367.6
40°	145.9	163.3	208.0	283.7	342.0
42.5°	111.3	129.5	180.6	256.3	312.9
45°	80.3	97.6	154.1	227.1	282.8
47.5°	61.1	70.2	130.4	197.9	253.6
50°	53.8	54.7	106.7	171.5	222.6
52.5°	46.5	47.4	83.0	145.9	189.7
55°	40.1	41.0	64.8	119.5	157.8
57.5°	33.7	35.6	52.9	94.9	126.8
60°	28.3	31.9	46.5	72.1	96.7
62.5°	22.8	29.2	40.1	52.9	69.3
65°	19.2	26.5	33.7	37.4	43.8
67.5°	15.5	24.6	28.3	26.5	26.5
70°	12.8	21.9	23.7	21.9	21.9
72.5°	10.9	21.0	20.1	18.2	18.2
75°	9.1	18.2	17.3	15.5	15.5
77.5°	8.2	15.5	14.6	13.7	12.8
80°	6.4	12.8	12.8	11.9	10.0
82.5°	5.5	10.9	10.9	10.0	8.2
85°	4.6	9.1	9.1	8.2	6.4
87.5°	3.6	8.2	8.2	7.3	4.6
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	6.91	8.23	7.28	8.54	8.86	14.13	15.45	14.50	15.76	16.08
	3H	8.31	9.48	8.69	9.81	10.17	14.37	15.54	14.75	15.87	16.23
	4H	8.87	9.96	9.27	10.31	10.69	14.48	15.57	14.88	15.92	16.30
	6H	9.33	10.33	9.74	10.70	11.10	14.58	15.59	15.00	15.96	16.35
	8H	9.52	10.47	9.95	10.86	11.26	14.63	15.58	15.06	15.97	16.38
	12H	9.71	10.62	10.14	11.00	11.43	14.68	15.59	15.12	15.97	16.40
4H	2H	7.98	9.07	8.38	9.42	9.80	14.09	15.18	14.50	15.53	15.92
	3H	9.67	10.56	10.08	10.97	11.37	14.46	15.36	14.88	15.76	16.16
	4H	10.50	11.30	10.94	11.72	12.16	14.65	15.45	15.08	15.86	16.31
	6H	11.16	11.85	11.62	12.30	12.77	14.87	15.56	15.33	16.01	16.47
	8H	11.42	12.06	11.89	12.51	12.98	14.97	15.62	15.44	16.06	16.53
	12H	11.67	12.25	12.16	12.73	13.20	15.09	15.66	15.57	16.14	16.61
8H	4H	10.94	11.58	11.41	12.03	12.50	14.69	15.34	15.16	15.78	16.25
	6H	11.89	12.42	12.39	12.92	13.40	15.02	15.55	15.53	16.05	16.53
	8H	12.35	12.83	12.88	13.35	13.84	15.21	15.69	15.73	16.21	16.70
	12H	12.83	13.26	13.35	13.75	14.32	15.45	15.87	15.96	16.36	16.93
12H	4H	11.00	11.57	11.48	12.05	12.53	14.68	15.26	15.17	15.74	16.21
	6H	12.04	12.52	12.56	13.03	13.52	15.05	15.53	15.57	16.04	16.54
	8H	12.63	13.05	13.14	13.55	14.12	15.31	15.73	15.82	16.23	16.80