

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1059332

Luminaire Tested: S123RDR-S775D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059332  
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: S123RDR-S775D830-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

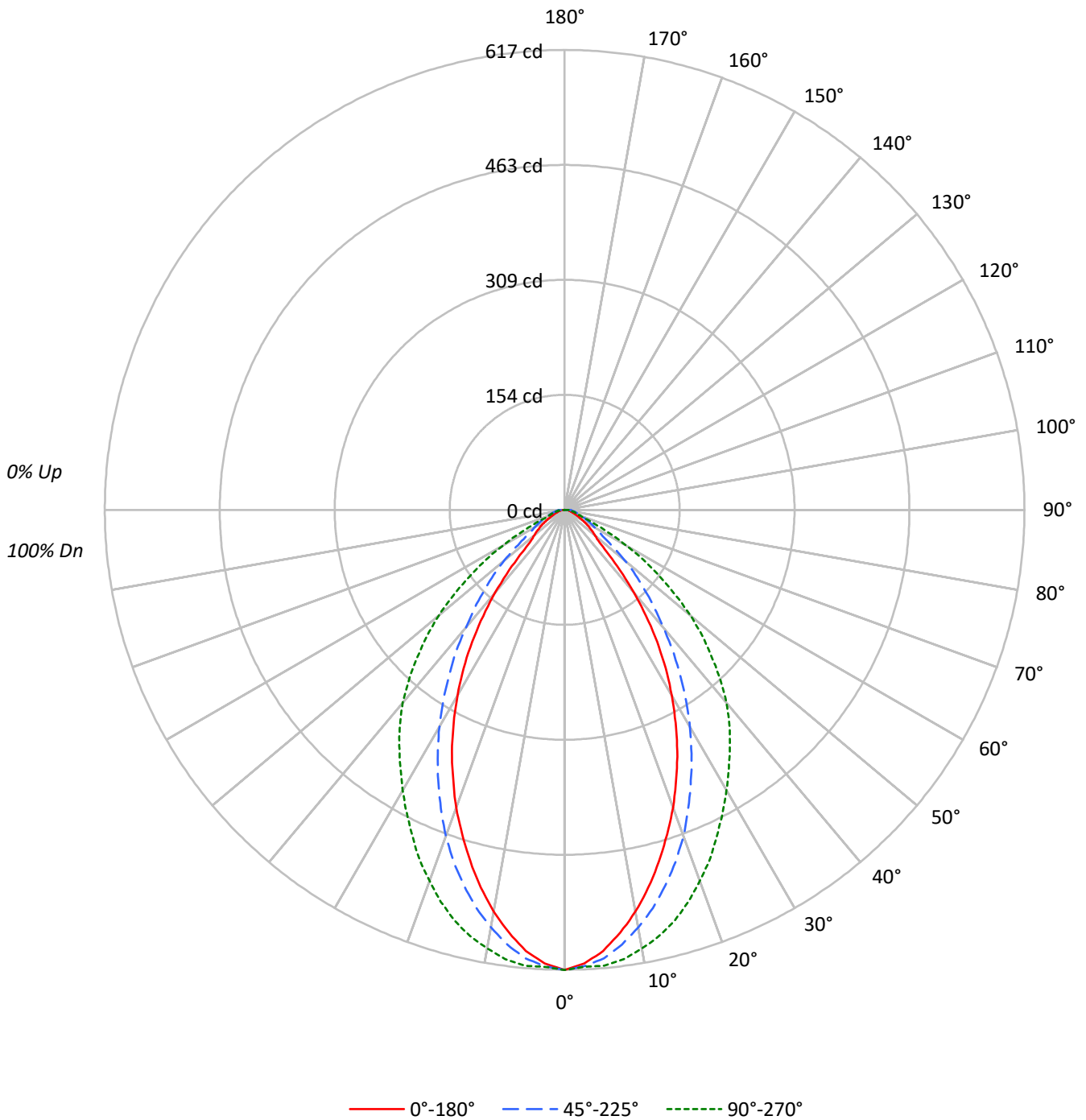
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 826.7 lumens  
Efficiency: N/A  
Efficacy: 32.0 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	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	59	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°	7249	7249	7249
5°	7000	7117	7234
10°	6522	6780	7124
15°	5937	6343	6934
20°	5315	5822	6622
25°	4636	5195	6258
30°	3898	4557	5890
35°	3101	3862	5542
40°	2210	3150	5180
45°	1317	2529	4640
50°	972	1925	4017
55°	813	1310	3192
60°	655	1080	2243
65°	525	925	1203
70°	433	803	742
75°	408	776	694
80°	426	852	669
85°	606	1213	849

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4640 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.7	6.9
10°-20°	147.3	17.8
20°-30°	187.9	22.7
30°-40°	176.8	21.4
40°-50°	127.0	15.4
50°-60°	72.8	8.8
60°-70°	33.3	4.0
70°-80°	16.7	2.0
80°-90°	8.2	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°	391.9	47.4
0°-40°	568.7	68.8
0°-60°	768.5	93.0
0°-90°	826.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	826.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	594	606	604	608	614	55
15°	488	506	522	550	570	136
25°	358	374	401	444	483	163
35°	216	232	269	331	387	134
45°	79	96	152	224	279	66
55°	40	41	64	118	156	36
65°	19	26	33	37	43	19
75°	9	18	17	15	15	10
85°	4	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°	617.3	617.3	617.3	617.3	617.3
2.5°	609.2	618.2	612.8	612.8	613.7
5°	593.9	605.6	603.8	608.3	613.7
7.5°	572.2	584.9	588.5	599.3	608.3
10°	547.0	561.4	568.6	585.8	597.5
12.5°	519.1	535.3	547.0	568.6	585.8
15°	488.4	505.5	521.8	549.7	570.4
17.5°	456.9	474.0	494.7	527.2	551.5
20°	425.3	442.5	465.9	500.1	529.9
22.5°	391.1	408.2	433.5	472.2	508.3
25°	357.8	374.0	401.0	444.3	483.0
27.5°	322.6	338.8	368.6	415.4	458.7
30°	287.5	303.7	336.1	386.6	434.4
32.5°	252.3	267.6	302.8	358.7	410.0
35°	216.3	231.6	269.4	330.7	386.6
37.5°	179.3	194.6	238.8	305.5	363.2
40°	144.2	161.3	205.5	280.3	337.9
42.5°	109.9	128.0	178.4	253.2	309.1
45°	79.3	96.4	152.3	224.4	279.4
47.5°	60.4	69.4	128.9	195.6	250.5
50°	53.2	54.1	105.4	169.4	219.9
52.5°	46.0	46.9	82.0	144.2	187.4
55°	39.7	40.6	64.0	118.1	155.9
57.5°	33.3	35.1	52.3	93.7	125.3
60°	27.9	31.5	46.0	71.2	95.5
62.5°	22.5	28.8	39.7	52.3	68.5
65°	18.9	26.1	33.3	36.9	43.3
67.5°	15.3	24.3	27.9	26.1	26.1
70°	12.6	21.6	23.4	21.6	21.6
72.5°	10.8	20.7	19.8	18.0	18.0
75°	9.0	18.0	17.1	15.3	15.3
77.5°	8.1	15.3	14.4	13.5	12.6
80°	6.3	12.6	12.6	11.7	9.9
82.5°	5.4	10.8	10.8	9.9	8.1
85°	4.5	9.0	9.0	8.1	6.3
87.5°	3.6	8.1	8.1	7.2	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)