

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: P1059389

Luminaire Tested: S123RDR-S775D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-67 )  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDR-S775D935-X4F0-XX-UDD-WVL-S  
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

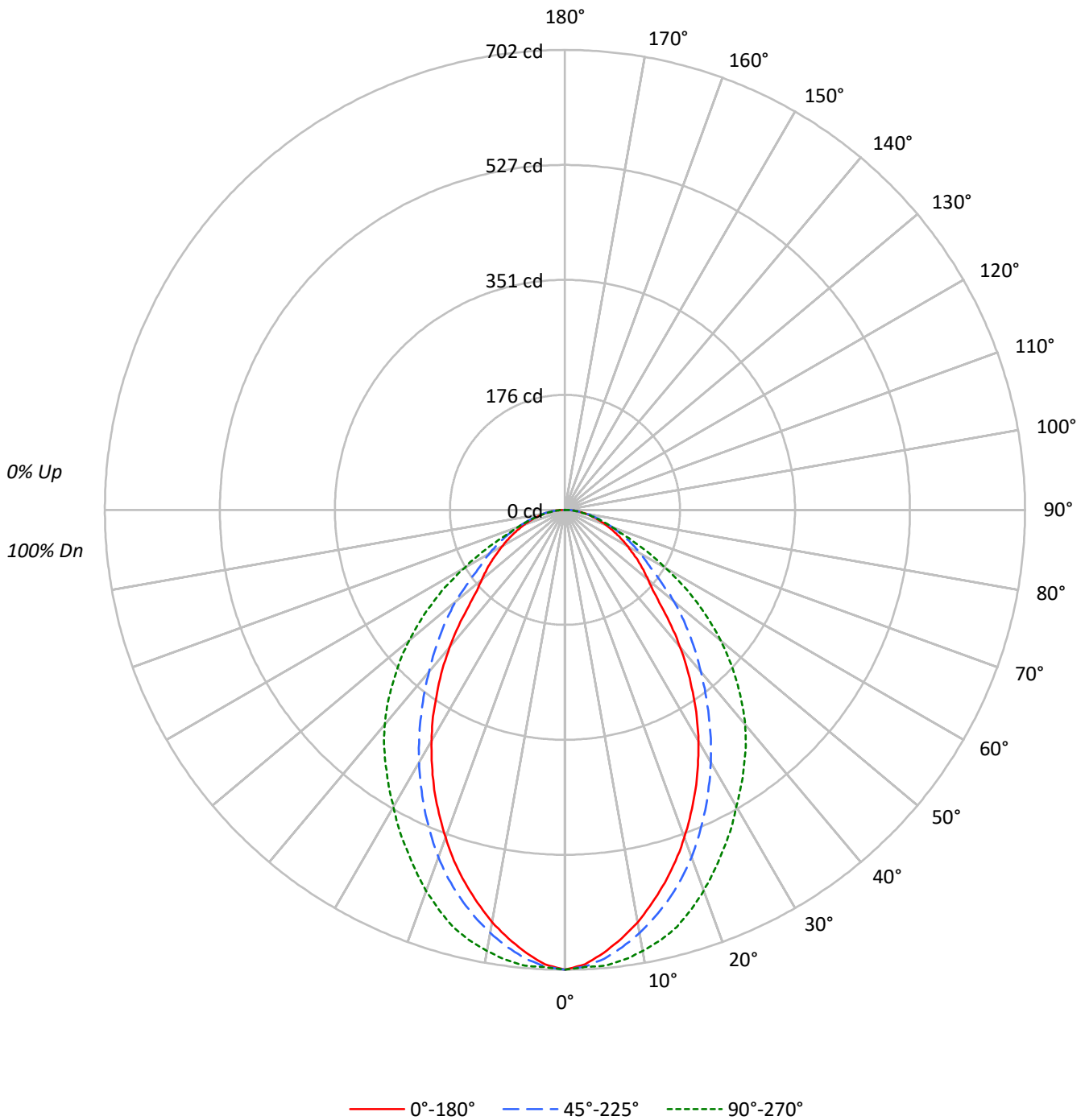
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1267.8 lumens  
Efficiency: N/A  
Efficacy: 49.1 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.12 / 1.1  
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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51				
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45				
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41				
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37				
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	39	35	34				
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8242	8242	8242
5°	8001	8108	8235
10°	7623	7819	8153
15°	7161	7471	8012
20°	6653	7053	7731
25°	6109	6556	7408
30°	5523	6035	7095
35°	4871	5485	6829
40°	4188	4943	6559
45°	3442	4454	6149
50°	3022	3968	5667
55°	2797	3386	5020
60°	2569	3112	4154
65°	2401	2859	3270
70°	2259	2599	2599
75°	2128	2391	2241
80°	2002	2171	1893
85°	1886	2102	1442

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6149 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	5.1
10°-20°	174.0	13.7
20°-30°	235.9	18.6
30°-40°	246.6	19.5
40°-50°	213.9	16.9
50°-60°	159.1	12.6
60°-70°	102.1	8.1
70°-80°	54.8	4.3
80°-90°	16.5	1.3
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°	474.8	37.4
0°-40°	721.4	56.9
0°-60°	1094.4	86.3
0°-90°	1267.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1267.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	679	690	688	693	699	64
15°	589	603	615	639	659	165
25°	472	486	506	540	572	216
35°	340	356	383	431	476	212
45°	207	223	268	326	370	163
55°	137	140	165	212	245	122
65°	86	94	103	109	118	86
75°	47	54	53	50	49	50
85°	14	17	16	13	11	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	701.9	701.9	701.9	701.9	701.9
2.5°	694.4	704.3	697.7	697.7	698.6
5°	678.8	690.3	687.9	692.8	698.6
7.5°	659.9	672.2	673.1	684.6	692.8
10°	639.3	651.7	655.8	672.2	683.8
12.5°	614.6	628.6	636.0	656.6	673.1
15°	589.1	603.1	614.6	639.3	659.1
17.5°	562.0	576.0	590.8	618.7	640.1
20°	532.4	547.2	564.4	592.4	618.7
22.5°	501.9	517.5	535.6	566.1	595.7
25°	471.5	486.3	506.0	539.8	571.8
27.5°	439.4	455.0	475.6	512.6	548.8
30°	407.3	422.9	445.1	484.6	523.3
32.5°	374.4	390.0	413.9	458.3	500.3
35°	339.8	356.3	382.6	431.1	476.4
37.5°	306.9	322.5	352.2	405.6	453.4
40°	273.2	289.6	322.5	380.1	427.9
42.5°	240.3	256.7	295.4	353.0	399.9
45°	207.3	223.0	268.2	325.8	370.3
47.5°	181.8	193.4	242.7	297.0	341.5
50°	165.4	169.5	217.2	269.1	310.2
52.5°	150.6	153.9	189.2	241.1	278.1
55°	136.6	139.9	165.4	212.3	245.2
57.5°	122.6	126.7	147.3	182.7	212.3
60°	109.4	114.4	132.5	156.3	176.9
62.5°	97.9	103.7	117.7	132.5	146.5
65°	86.4	93.8	102.9	109.4	117.7
67.5°	75.7	83.9	88.9	90.5	91.3
70°	65.8	74.1	75.7	75.7	75.7
72.5°	56.0	65.0	63.4	62.5	61.7
75°	46.9	54.3	52.7	50.2	49.4
77.5°	37.8	44.4	42.0	40.3	37.8
80°	29.6	34.6	32.1	30.4	28.0
82.5°	22.2	25.5	23.0	21.4	18.9
85°	14.0	17.3	15.6	13.2	10.7
87.5°	7.4	9.9	8.2	7.4	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)