

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: P1059387

Luminaire Tested: S123RDR-S775D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDR-S775D935-X4F0-XX-UDD-SVL-W  
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

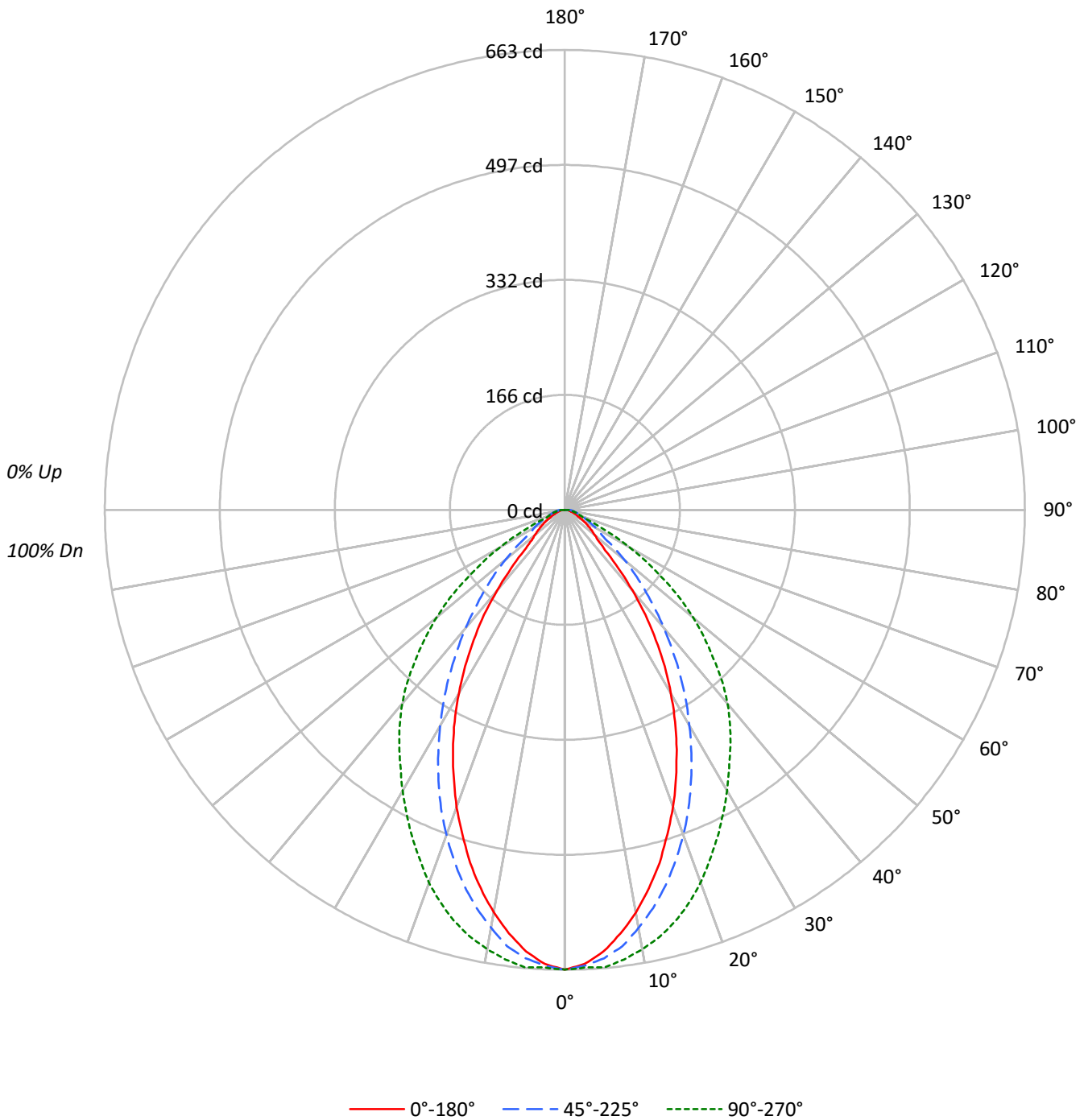
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 889.8 lumens  
Efficiency: N/A  
Efficacy: 34.5 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.08 / 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				
RC	80					70					50					30				
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	102	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	90	81	74	68	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	60	69	64	60	68	63	59	58		
6	79	68	61	55	78	67	60	55	66	59	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	55	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	49	43	39	49	43	39	48	43	39	37		

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

	0°	45°	90°
0°	7783	7783	7783
5°	7532	7648	7803
10°	7029	7295	7668
15°	6407	6816	7468
20°	5701	6236	7151
25°	4939	5579	6742
30°	4142	4868	6342
35°	3281	4143	5960
40°	2322	3408	5592
45°	1367	2694	5032
50°	1023	2046	4408
55°	860	1382	3540
60°	695	1179	2513
65°	550	1006	1328
70°	481	875	821
75°	449	821	785
80°	446	893	778
85°	552	1334	997

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5032 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	6.9
10°-20°	158.5	17.8
20°-30°	201.9	22.7
30°-40°	189.9	21.3
40°-50°	136.8	15.4
50°-60°	79.0	8.9
60°-70°	36.1	4.1
70°-80°	18.0	2.0
80°-90°	8.5	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°	421.4	47.4
0°-40°	611.3	68.7
0°-60°	827.1	93.0
0°-90°	889.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	889.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	639	650	649	655	662	59
15°	527	546	561	592	614	147
25°	381	401	431	478	520	174
35°	229	249	289	356	416	142
45°	82	103	162	244	303	70
55°	42	44	68	128	173	38
65°	20	28	36	40	48	20
75°	10	19	18	17	17	11
85°	4	9	10	9	7	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	662.8	662.8	662.8	662.8	662.8
2.5°	655.4	663.7	657.9	658.7	660.4
5°	639.0	649.7	648.8	655.4	662.0
7.5°	615.9	628.2	634.8	644.7	653.8
10°	589.5	603.5	611.8	629.9	643.1
12.5°	559.1	577.2	587.9	611.8	630.7
15°	527.0	545.9	560.7	592.0	614.3
17.5°	490.7	511.3	530.3	567.3	594.5
20°	456.2	475.9	499.0	539.3	572.3
22.5°	418.3	439.7	466.0	508.9	545.9
25°	381.2	401.0	430.6	478.4	520.4
27.5°	344.2	363.9	395.2	447.9	494.0
30°	305.5	326.1	359.0	417.5	467.7
32.5°	267.6	287.4	324.4	387.8	440.5
35°	228.9	248.7	289.0	355.7	415.8
37.5°	191.0	211.6	254.4	329.4	391.1
40°	151.5	173.7	222.3	302.2	364.8
42.5°	114.5	138.3	190.2	274.2	335.9
45°	82.3	102.9	162.2	243.7	303.0
47.5°	64.2	74.9	136.7	212.4	272.5
50°	56.0	57.6	112.0	183.6	241.3
52.5°	48.6	50.2	88.1	156.4	208.3
55°	42.0	43.6	67.5	128.4	172.9
57.5°	35.4	37.9	56.0	102.1	139.2
60°	29.6	32.9	50.2	78.2	107.0
62.5°	23.9	29.6	42.8	57.6	76.6
65°	19.8	28.0	36.2	40.3	47.8
67.5°	16.5	25.5	30.5	28.8	28.0
70°	14.0	23.1	25.5	23.1	23.9
72.5°	11.5	21.4	21.4	19.8	19.8
75°	9.9	18.9	18.1	17.3	17.3
77.5°	8.2	16.5	15.6	14.8	14.0
80°	6.6	13.2	13.2	12.4	11.5
82.5°	5.8	10.7	10.7	10.7	9.1
85°	4.1	9.1	9.9	9.1	7.4
87.5°	3.3	8.2	8.2	7.4	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)