

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: P1059378

Luminaire Tested: S123RDR-S775D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059378  
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-S775D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

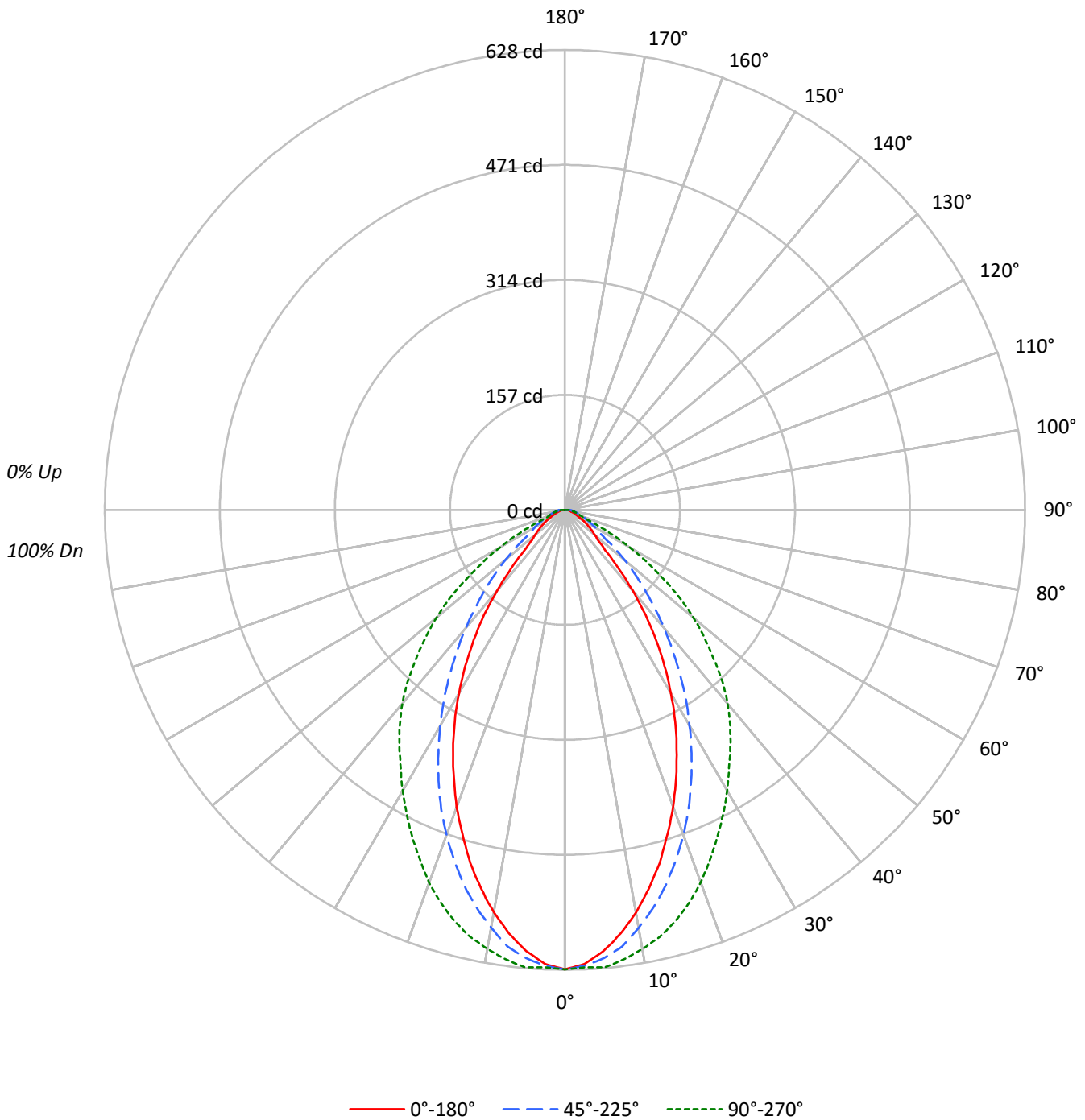
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 842.6 lumens  
Efficiency: N/A  
Efficacy: 32.7 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				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	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°	7370	7370	7370
5°	7131	7242	7389
10°	6657	6907	7260
15°	6066	6455	7070
20°	5397	5904	6772
25°	4677	5284	6385
30°	3923	4609	6005
35°	3108	3923	5644
40°	2200	3227	5295
45°	1295	2551	4764
50°	968	1936	4172
55°	815	1308	3351
60°	660	1118	2381
65°	520	953	1256
70°	457	831	776
75°	426	780	744
80°	419	845	737
85°	525	1266	943

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4764 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.8	6.9
10°-20°	150.1	17.8
20°-30°	191.2	22.7
30°-40°	179.8	21.3
40°-50°	129.5	15.4
50°-60°	74.8	8.9
60°-70°	34.2	4.1
70°-80°	17.1	2.0
80°-90°	8.1	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°	399.1	47.4
0°-40°	578.9	68.7
0°-60°	783.2	93.0
0°-90°	842.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	842.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	605	615	614	621	627	56
15°	499	517	531	561	582	139
25°	361	380	408	453	493	165
35°	217	236	274	337	394	134
45°	78	98	154	231	287	66
55°	40	41	64	122	164	36
65°	19	26	34	38	45	19
75°	9	18	17	16	16	10
85°	4	9	9	9	7	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	627.6	627.6	627.6	627.6	627.6
2.5°	620.6	628.4	623.0	623.8	625.3
5°	605.0	615.2	614.4	620.6	626.9
7.5°	583.2	594.9	601.1	610.5	619.1
10°	558.3	571.5	579.3	596.5	608.9
12.5°	529.4	546.6	556.7	579.3	597.2
15°	499.0	516.9	531.0	560.6	581.6
17.5°	464.7	484.2	502.1	537.2	562.9
20°	431.9	450.7	472.5	510.7	541.9
22.5°	396.1	416.4	441.3	481.8	516.9
25°	361.0	379.7	407.8	453.0	492.8
27.5°	325.9	344.6	374.3	424.2	467.8
30°	289.3	308.8	339.9	395.3	442.9
32.5°	253.4	272.1	307.2	367.2	417.1
35°	216.8	235.5	273.7	336.8	393.7
37.5°	180.9	200.4	240.9	311.9	370.4
40°	143.5	164.5	210.5	286.1	345.4
42.5°	108.4	131.0	180.1	259.6	318.1
45°	78.0	97.5	153.6	230.8	286.9
47.5°	60.8	71.0	129.4	201.2	258.1
50°	53.0	54.6	106.0	173.9	228.4
52.5°	46.0	47.6	83.4	148.1	197.3
55°	39.8	41.3	63.9	121.6	163.7
57.5°	33.5	35.9	53.0	96.7	131.8
60°	28.1	31.2	47.6	74.1	101.4
62.5°	22.6	28.1	40.5	54.6	72.5
65°	18.7	26.5	34.3	38.2	45.2
67.5°	15.6	24.2	28.8	27.3	26.5
70°	13.3	21.8	24.2	21.8	22.6
72.5°	10.9	20.3	20.3	18.7	18.7
75°	9.4	17.9	17.2	16.4	16.4
77.5°	7.8	15.6	14.8	14.0	13.3
80°	6.2	12.5	12.5	11.7	10.9
82.5°	5.5	10.1	10.1	10.1	8.6
85°	3.9	8.6	9.4	8.6	7.0
87.5°	3.1	7.8	7.8	7.0	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)