

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: P1059376

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-29)  
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-B  
Description: DEFINE 3 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

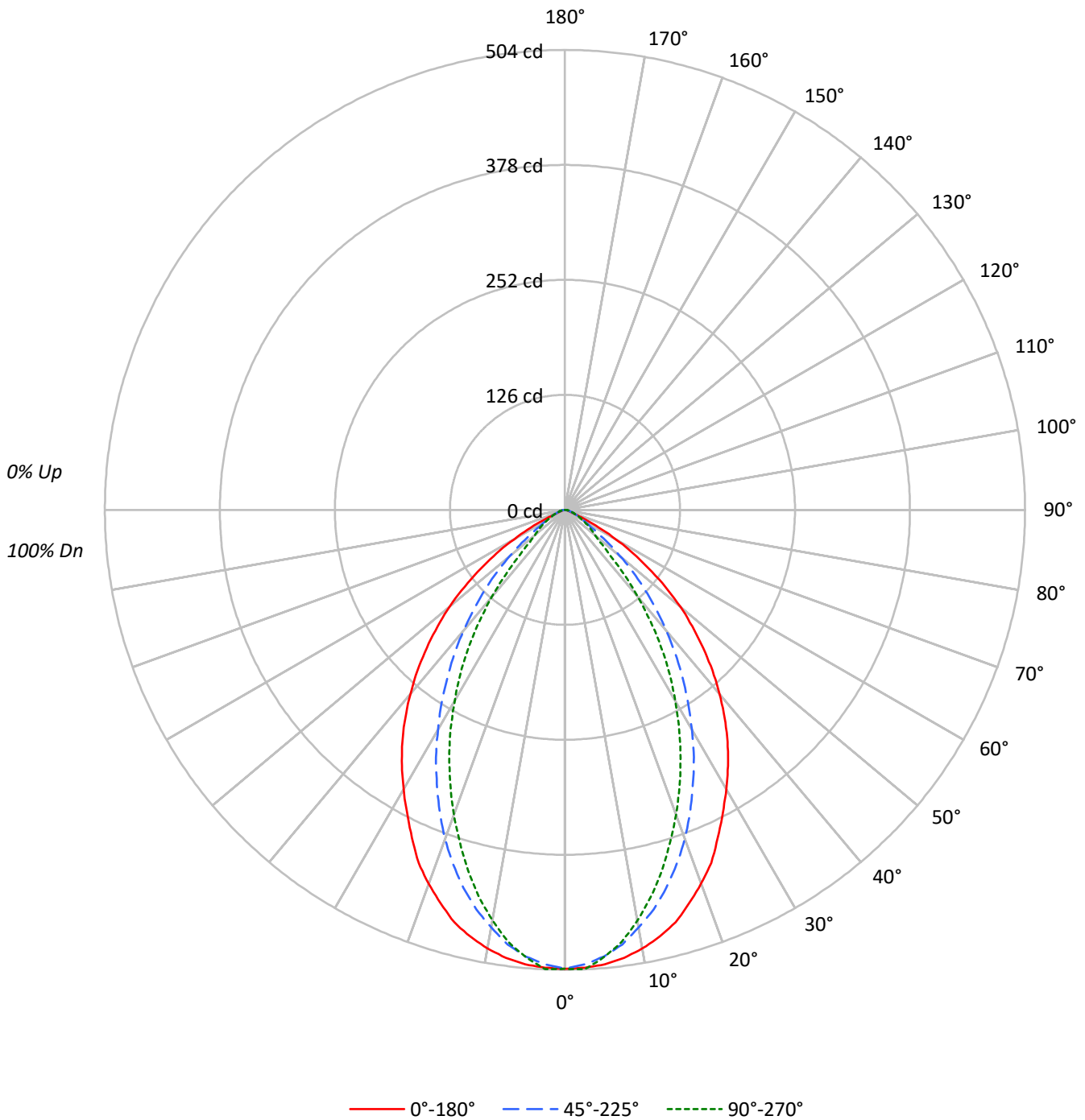
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 649.4 lumens  
Efficiency: N/A  
Efficacy: 25.2 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 0.85 / 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				100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91				91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82				82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				73
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66				66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				60
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55				55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50				50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	48	46				46
9	67	56	49	45	66	56	49	44	55	48	44	54	48	44	53	48	44	42				42
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39				39

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

	0°	45°	90°
0°	5906	5906	5906
5°	5892	5791	5801
10°	5821	5543	5450
15°	5689	5215	4979
20°	5450	4797	4447
25°	5135	4298	3884
30°	4793	3769	3273
35°	4454	3215	2635
40°	4035	2650	1910
45°	3555	2056	1151
50°	3016	1436	782
55°	2295	860	653
60°	1501	550	512
65°	628	411	411
70°	213	295	319
75°	177	213	250
80°	108	156	210
85°	108	108	216

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3555 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.5	7.2
10°-20°	121.6	18.7
20°-30°	155.9	24.0
30°-40°	146.3	22.5
40°-50°	102.1	15.7
50°-60°	52.8	8.1
60°-70°	18.0	2.8
70°-80°	5.2	0.8
80°-90°	1.1	0.2
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°	323.9	49.9
0°-40°	470.3	72.4
0°-60°	625.1	96.3
0°-90°	649.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	503	503	503	503	503	
5°	500	499	491	494	492	47
15°	468	456	429	415	410	131
25°	396	371	332	309	300	182
35°	311	272	224	195	184	193
45°	214	175	124	86	69	165
55°	112	84	42	33	32	101
65°	23	20	15	14	15	27
75°	4	4	5	6	6	4
85°	1	1	1	1	2	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	503.0	503.0	503.0	503.0	503.0
2.5°	502.2	503.0	498.4	503.0	503.8
5°	499.9	499.1	491.3	493.7	492.1
7.5°	495.2	492.9	480.4	477.3	477.3
10°	488.2	483.6	464.9	459.4	457.1
12.5°	478.9	472.7	448.5	438.4	434.5
15°	468.0	456.3	429.0	415.0	409.6
17.5°	452.4	436.8	407.2	390.9	382.3
20°	436.1	416.6	383.9	364.4	355.9
22.5°	418.9	395.6	358.2	337.2	327.8
25°	396.3	371.4	331.7	309.1	299.8
27.5°	374.5	348.1	306.0	280.3	271.0
30°	353.5	322.4	278.0	253.1	241.4
32.5°	332.5	297.5	251.5	224.3	213.4
35°	310.7	272.5	224.3	195.4	183.8
37.5°	287.3	248.4	198.6	167.4	153.4
40°	263.2	222.7	172.9	137.8	124.6
42.5°	239.1	199.3	147.2	111.4	95.8
45°	214.1	175.2	123.8	85.7	69.3
47.5°	189.2	151.1	101.2	62.3	52.2
50°	165.1	128.5	78.6	45.9	42.8
52.5°	138.6	106.7	59.2	38.2	37.4
55°	112.1	84.1	42.0	32.7	31.9
57.5°	88.8	65.4	30.4	27.3	26.5
60°	63.9	46.7	23.4	22.6	21.8
62.5°	42.0	31.9	18.7	17.9	17.9
65°	22.6	19.5	14.8	14.0	14.8
67.5°	9.3	10.9	10.9	11.7	11.7
70°	6.2	7.0	8.6	9.3	9.3
72.5°	4.7	5.5	6.2	7.0	7.0
75°	3.9	3.9	4.7	5.5	5.5
77.5°	2.3	3.1	3.1	3.9	4.7
80°	1.6	2.3	2.3	3.1	3.1
82.5°	0.8	1.6	1.6	2.3	2.3
85°	0.8	0.8	0.8	0.8	1.6
87.5°	0.0	0.0	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)