

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: P1059367

Luminaire Tested: S123RDR-S775D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059367
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-S775D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

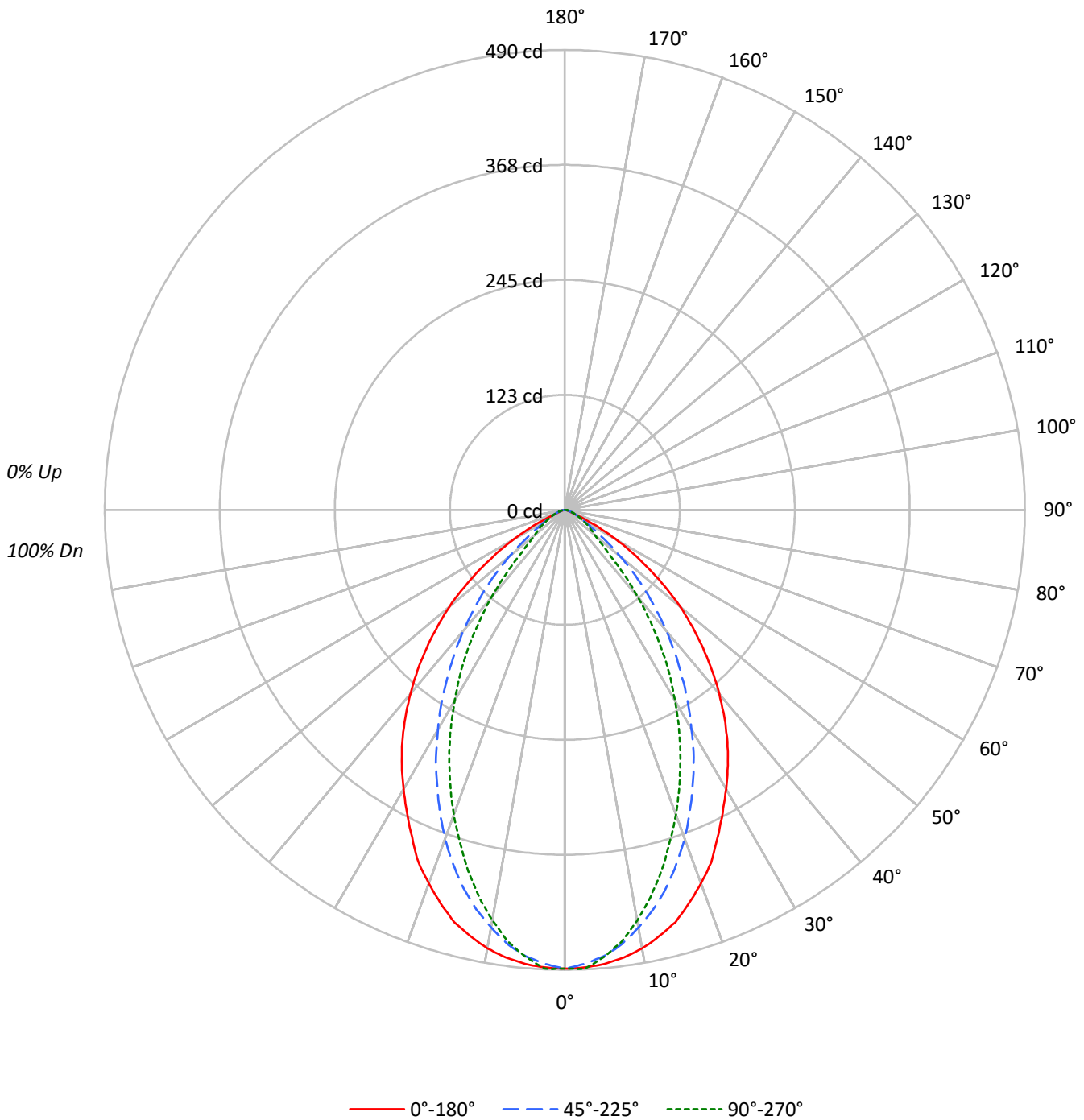
Lumens per Lamp: N/A
Luminaire Lumens: 631.0 lumens
Efficiency: N/A
Efficacy: 24.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 0.85 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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°	5740	5740	5740
5°	5725	5627	5637
10°	5657	5386	5295
15°	5528	5068	4838
20°	5295	4661	4321
25°	4989	4176	3774
30°	4658	3662	3180
35°	4328	3124	2560
40°	3920	2575	1856
45°	3456	1998	1118
50°	2930	1396	760
55°	2229	837	635
60°	1456	533	498
65°	608	400	400
70°	209	285	312
75°	172	204	240
80°	101	156	203
85°	108	108	202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3456 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	7.2
10°-20°	118.1	18.7
20°-30°	151.5	24.0
30°-40°	142.2	22.5
40°-50°	99.2	15.7
50°-60°	51.3	8.1
60°-70°	17.5	2.8
70°-80°	5.0	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°	314.8	49.9
0°-40°	456.9	72.4
0°-60°	607.4	96.3
0°-90°	631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	486	485	477	480	478	46
15°	455	443	417	403	398	127
25°	385	361	322	300	291	177
35°	302	265	218	190	179	188
45°	208	170	120	83	67	160
55°	109	82	41	32	31	98
65°	22	19	14	14	14	26
75°	4	4	4	5	5	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°	488.8	488.8	488.8	488.8	488.8
2.5°	488.0	488.8	484.2	488.8	489.5
5°	485.7	485.0	477.4	479.7	478.2
7.5°	481.2	478.9	466.8	463.8	463.8
10°	474.4	469.8	451.7	446.4	444.1
12.5°	465.3	459.3	435.8	426.0	422.2
15°	454.7	443.4	416.9	403.3	398.0
17.5°	439.6	424.4	395.7	379.8	371.5
20°	423.7	404.8	373.0	354.1	345.8
22.5°	407.0	384.4	348.0	327.6	318.5
25°	385.1	360.9	322.3	300.4	291.3
27.5°	363.9	338.2	297.3	272.4	263.3
30°	343.5	313.2	270.1	245.9	234.5
32.5°	323.1	289.0	244.4	217.9	207.3
35°	301.9	264.8	217.9	189.9	178.6
37.5°	279.2	241.4	192.9	162.7	149.0
40°	255.7	216.4	168.0	133.9	121.1
42.5°	232.3	193.7	143.0	108.2	93.1
45°	208.1	170.2	120.3	83.2	67.3
47.5°	183.9	146.8	98.4	60.5	50.7
50°	160.4	124.8	76.4	44.6	41.6
52.5°	134.7	103.7	57.5	37.1	36.3
55°	108.9	81.7	40.9	31.8	31.0
57.5°	86.3	63.6	29.5	26.5	25.7
60°	62.0	45.4	22.7	21.9	21.2
62.5°	40.9	31.0	18.2	17.4	17.4
65°	21.9	18.9	14.4	13.6	14.4
67.5°	9.1	10.6	10.6	11.3	11.3
70°	6.1	6.8	8.3	9.1	9.1
72.5°	4.5	5.3	6.1	6.8	6.8
75°	3.8	3.8	4.5	5.3	5.3
77.5°	2.3	3.0	3.0	3.8	4.5
80°	1.5	2.3	2.3	3.0	3.0
82.5°	0.8	1.5	1.5	2.3	2.3
85°	0.8	0.8	0.8	0.8	1.5
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)