

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: P1059369

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059369
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-S775D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

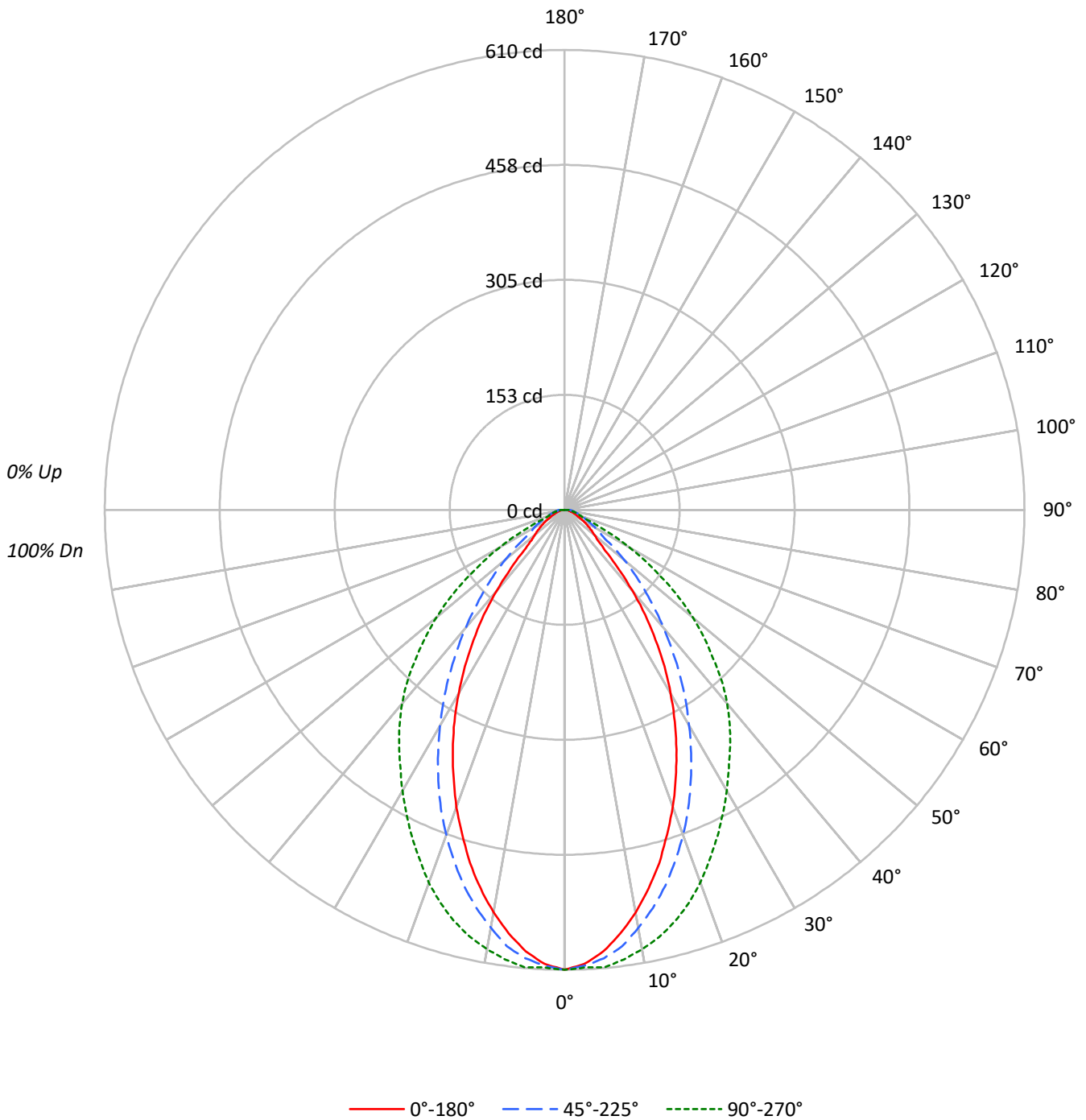
Lumens per Lamp: N/A
Luminaire Lumens: 818.7 lumens
Efficiency: N/A
Efficacy: 31.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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°	7162	7162	7162
5°	6930	7037	7180
10°	6467	6712	7055
15°	5895	6272	6871
20°	5245	5737	6579
25°	4545	5133	6203
30°	3811	4479	5834
35°	3019	3812	5485
40°	2137	3135	5144
45°	1259	2478	4630
50°	941	1882	4055
55°	790	1271	3257
60°	641	1085	2313
65°	506	925	1220
70°	443	807	755
75°	413	758	721
80°	412	818	717
85°	512	1226	916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4630 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	6.9
10°-20°	145.9	17.8
20°-30°	185.8	22.7
30°-40°	174.7	21.3
40°-50°	125.8	15.4
50°-60°	72.7	8.9
60°-70°	33.2	4.1
70°-80°	16.6	2.0
80°-90°	7.8	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°	387.8	47.4
0°-40°	562.5	68.7
0°-60°	761.0	93.0
0°-90°	818.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	818.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	588	598	597	603	609	55
15°	485	502	516	545	565	135
25°	351	369	396	440	479	160
35°	211	229	266	327	383	131
45°	76	95	149	224	279	64
55°	39	40	62	118	159	35
65°	18	26	33	37	44	19
75°	9	17	17	16	16	10
85°	4	8	9	8	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	609.9	609.9	609.9	609.9	609.9
2.5°	603.0	610.6	605.3	606.1	607.6
5°	587.9	597.7	597.0	603.0	609.1
7.5°	566.7	578.0	584.1	593.2	601.5
10°	542.4	555.3	562.9	579.5	591.7
12.5°	514.4	531.1	540.9	562.9	580.3
15°	484.9	502.3	515.9	544.7	565.2
17.5°	451.5	470.5	487.9	522.0	547.0
20°	419.7	437.9	459.1	496.2	526.5
22.5°	384.9	404.5	428.8	468.2	502.3
25°	350.8	368.9	396.2	440.2	478.8
27.5°	316.7	334.9	363.6	412.1	454.5
30°	281.1	300.0	330.3	384.1	430.3
32.5°	246.2	264.4	298.5	356.8	405.3
35°	210.6	228.8	265.9	327.3	382.6
37.5°	175.8	194.7	234.1	303.0	359.9
40°	139.4	159.8	204.5	278.0	335.6
42.5°	105.3	127.3	175.0	252.3	309.1
45°	75.8	94.7	149.2	224.2	278.8
47.5°	59.1	68.9	125.8	195.5	250.8
50°	51.5	53.0	103.0	168.9	222.0
52.5°	44.7	46.2	81.1	143.9	191.7
55°	38.6	40.2	62.1	118.2	159.1
57.5°	32.6	34.8	51.5	93.9	128.0
60°	27.3	30.3	46.2	72.0	98.5
62.5°	22.0	27.3	39.4	53.0	70.5
65°	18.2	25.8	33.3	37.1	43.9
67.5°	15.2	23.5	28.0	26.5	25.8
70°	12.9	21.2	23.5	21.2	22.0
72.5°	10.6	19.7	19.7	18.2	18.2
75°	9.1	17.4	16.7	15.9	15.9
77.5°	7.6	15.2	14.4	13.6	12.9
80°	6.1	12.1	12.1	11.4	10.6
82.5°	5.3	9.8	9.8	9.8	8.3
85°	3.8	8.3	9.1	8.3	6.8
87.5°	3.0	7.6	7.6	6.8	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)