

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: P1058087

Luminaire Tested: S122RDR-S675D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-60)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

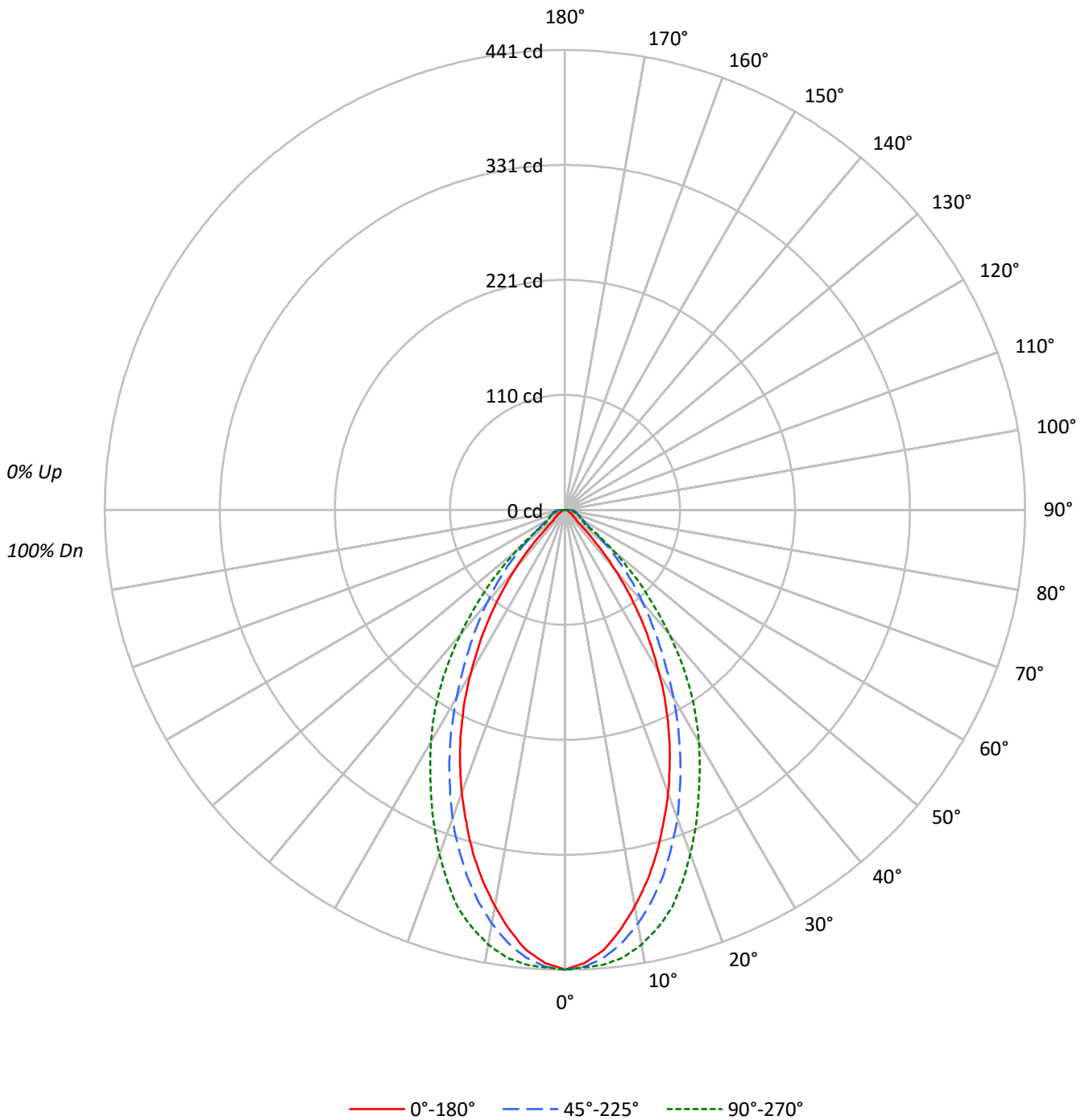
Lumens per Lamp: N/A
Luminaire Lumens: 475.3 lumens
Efficiency: N/A
Efficacy: 18.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.95 / 0.9
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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				
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74				
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67				
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61				
6	82	72	65	60	80	71	64	59	69	63	59	68	63	59	66	62	58	57				
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52				
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48				
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45				
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8136	8136	8136
5°	7854	7980	8104
10°	7233	7549	7930
15°	6503	6938	7552
20°	5673	6188	6900
25°	4799	5330	6173
30°	3833	4428	5472
35°	2836	3557	4699
40°	1790	2787	3743
45°	705	2093	2756
50°	365	1407	1697
55°	299	923	759
60°	218	749	686
65°	183	699	699
70°	183	728	685
75°	242	841	720
80°	361	1073	808
85°	529	1778	1080

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 87.5°
 Luminance: 3553 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	8.5
10°-20°	101.9	21.4
20°-30°	121.0	25.5
30°-40°	100.7	21.2
40°-50°	56.2	11.8
50°-60°	22.7	4.8
60°-70°	14.5	3.1
70°-80°	10.9	2.3
80°-90°	6.9	1.5
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°	263.2	55.4
0°-40°	363.9	76.6
0°-60°	442.9	93.2
0°-90°	475.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	475.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	424	432	431	434	438	39
15°	340	350	363	382	395	95
25°	236	245	262	282	303	107
35°	126	138	158	184	209	78
45°	27	46	80	94	106	25
55°	9	19	29	28	24	8
65°	4	17	16	15	16	4
75°	3	12	12	11	10	4
85°	2	8	8	8	5	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	440.9	440.9	440.9	440.9	440.9
2.5°	435.0	441.7	438.4	438.4	439.2
5°	424.0	431.6	430.8	434.1	437.5
7.5°	406.3	414.7	418.9	426.5	432.5
10°	386.0	395.3	402.9	414.7	423.2
12.5°	364.0	373.3	384.3	399.5	410.5
15°	340.4	350.5	363.2	381.8	395.3
17.5°	314.2	325.2	339.5	359.8	374.2
20°	288.9	299.8	315.1	335.3	351.4
22.5°	262.7	272.0	288.0	308.3	327.7
25°	235.7	244.9	261.8	282.1	303.2
27.5°	208.6	217.9	234.8	255.9	279.6
30°	179.9	190.0	207.8	231.4	256.8
32.5°	152.9	163.0	181.6	207.8	233.1
35°	125.9	137.7	157.9	184.1	208.6
37.5°	99.7	113.2	136.0	160.5	182.4
40°	74.3	88.7	115.7	136.8	155.4
42.5°	49.0	65.9	97.1	114.9	129.2
45°	27.0	45.6	80.2	93.8	105.6
47.5°	15.2	29.6	63.3	74.3	81.1
50°	12.7	22.0	49.0	56.6	59.1
52.5°	10.1	20.3	37.2	41.4	39.7
55°	9.3	19.4	28.7	27.9	23.6
57.5°	7.6	19.4	22.8	20.3	20.3
60°	5.9	18.6	20.3	17.7	18.6
62.5°	5.1	17.7	18.6	16.9	16.9
65°	4.2	16.9	16.0	15.2	16.0
67.5°	3.4	15.2	15.2	14.4	14.4
70°	3.4	14.4	13.5	12.7	12.7
72.5°	3.4	12.7	12.7	11.8	11.8
75°	3.4	11.8	11.8	11.0	10.1
77.5°	3.4	10.1	11.0	10.1	9.3
80°	3.4	9.3	10.1	9.3	7.6
82.5°	3.4	8.4	9.3	8.4	6.8
85°	2.5	7.6	8.4	7.6	5.1
87.5°	2.5	7.6	8.4	6.8	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)