

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: P1058080

Luminaire Tested: S122RDR-S675D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D930-X4F0-XX-UDD-SVL-B
Description: DEFINE 2 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

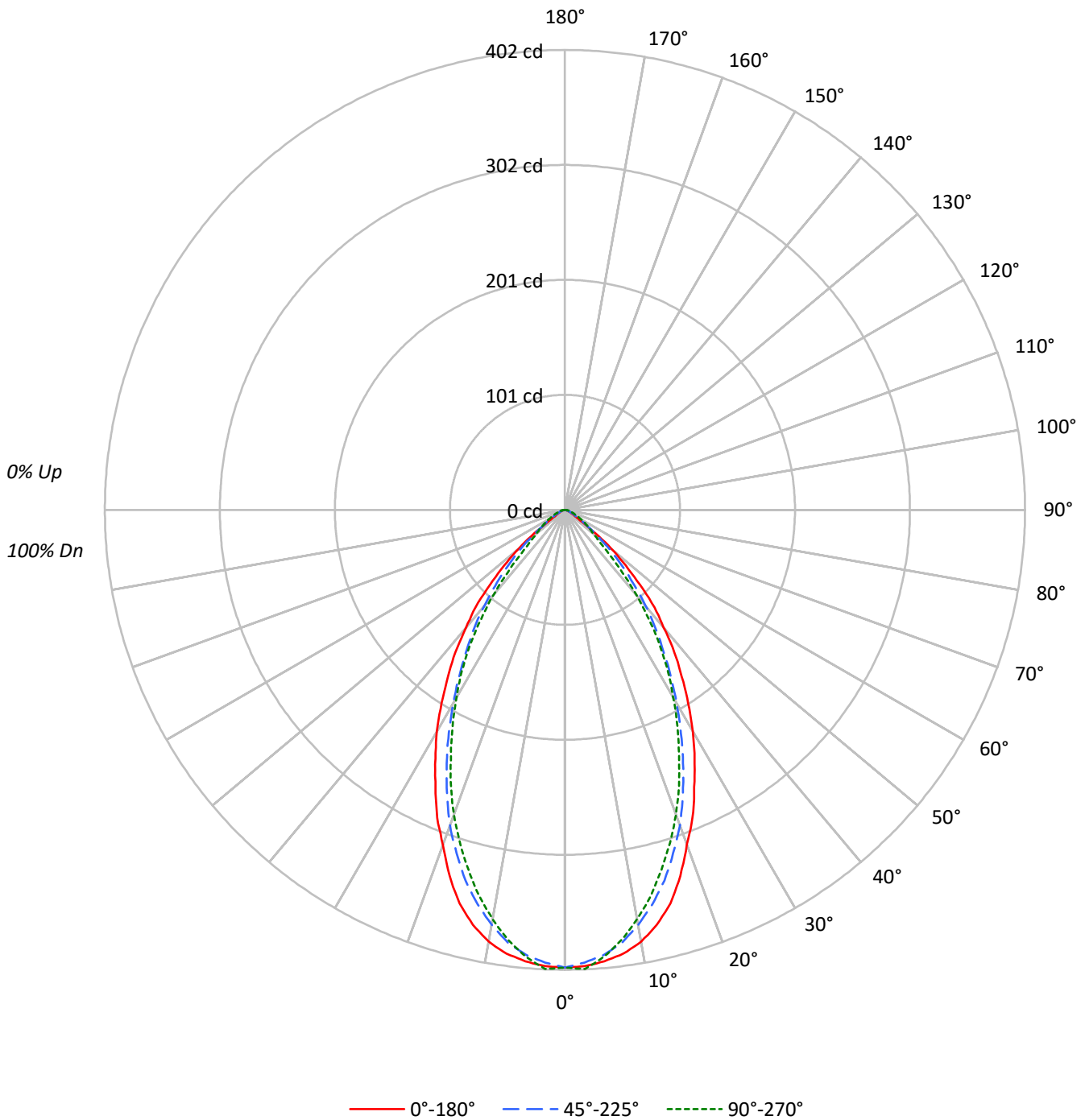
Lumens per Lamp: N/A
Luminaire Lumens: 430.3 lumens
Efficiency: N/A
Efficacy: 16.7 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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			100	
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			92	
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84			84	
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76			76	
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70	
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64	
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59			59	
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54			54	
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50			50	
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47			47	
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44			44	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7383	7383	7383
5°	7337	7233	7263
10°	7182	6899	6809
15°	6805	6407	6224
20°	6117	5771	5567
25°	5446	4976	4797
30°	4764	4153	4033
35°	4012	3363	3257
40°	3233	2654	2346
45°	2416	1918	1396
50°	1513	1237	916
55°	515	669	746
60°	295	413	590
65°	210	279	454
70°	173	216	345
75°	114	171	285
80°	85	170	255
85°	0	0	169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2416 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	8.6
10°-20°	94.4	21.9
20°-30°	113.7	26.4
30°-40°	97.1	22.6
40°-50°	56.9	13.2
50°-60°	20.6	4.8
60°-70°	7.3	1.7
70°-80°	2.9	0.7
80°-90°	0.5	0.1
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°	245.0	56.9
0°-40°	342.1	79.5
0°-60°	419.6	97.5
0°-90°	430.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	430.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	396	397	390	392	392	37
15°	356	351	335	329	326	99
25°	268	256	244	240	236	123
35°	178	164	149	148	145	111
45°	93	83	74	62	54	71
55°	16	22	21	22	23	20
65°	5	6	6	9	10	5
75°	2	2	2	3	4	2
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.1	400.1	400.1	400.1	400.1
2.5°	399.3	400.1	396.1	400.1	401.7
5°	396.1	396.9	390.5	392.1	392.1
7.5°	391.3	390.5	381.7	380.1	379.3
10°	383.3	380.9	368.2	365.8	363.4
12.5°	371.4	366.6	353.0	349.0	345.8
15°	356.2	350.6	335.4	329.0	325.8
17.5°	335.4	329.0	314.7	308.3	305.1
20°	311.5	305.1	293.9	286.7	283.5
22.5°	291.5	281.1	269.1	264.3	260.4
25°	267.5	256.4	244.4	240.4	235.6
27.5°	245.2	231.6	219.6	216.4	212.4
30°	223.6	209.2	194.9	194.9	189.3
32.5°	200.5	186.9	171.7	170.9	167.7
35°	178.1	164.5	149.3	147.7	144.6
37.5°	157.3	143.8	129.4	124.6	120.6
40°	134.2	122.2	110.2	102.2	97.4
42.5°	115.8	102.2	90.2	80.7	74.3
45°	92.6	83.1	73.5	61.5	53.5
47.5°	71.9	65.5	57.5	43.9	39.9
50°	52.7	49.5	43.1	32.7	31.9
52.5°	33.5	35.1	31.1	25.6	28.0
55°	16.0	22.4	20.8	21.6	23.2
57.5°	10.4	11.2	15.2	17.6	19.2
60°	8.0	8.0	11.2	14.4	16.0
62.5°	6.4	6.4	8.8	12.0	12.8
65°	4.8	5.6	6.4	8.8	10.4
67.5°	4.0	4.0	4.8	7.2	8.0
70°	3.2	3.2	4.0	5.6	6.4
72.5°	2.4	2.4	3.2	4.8	4.8
75°	1.6	2.4	2.4	3.2	4.0
77.5°	1.6	1.6	1.6	2.4	3.2
80°	0.8	0.8	1.6	1.6	2.4
82.5°	0.8	0.8	0.8	0.8	1.6
85°	0.0	0.0	0.0	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)