

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: P1058036

Luminaire Tested: S122RDR-S675D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D830-X4F0-XX-UDD-SVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

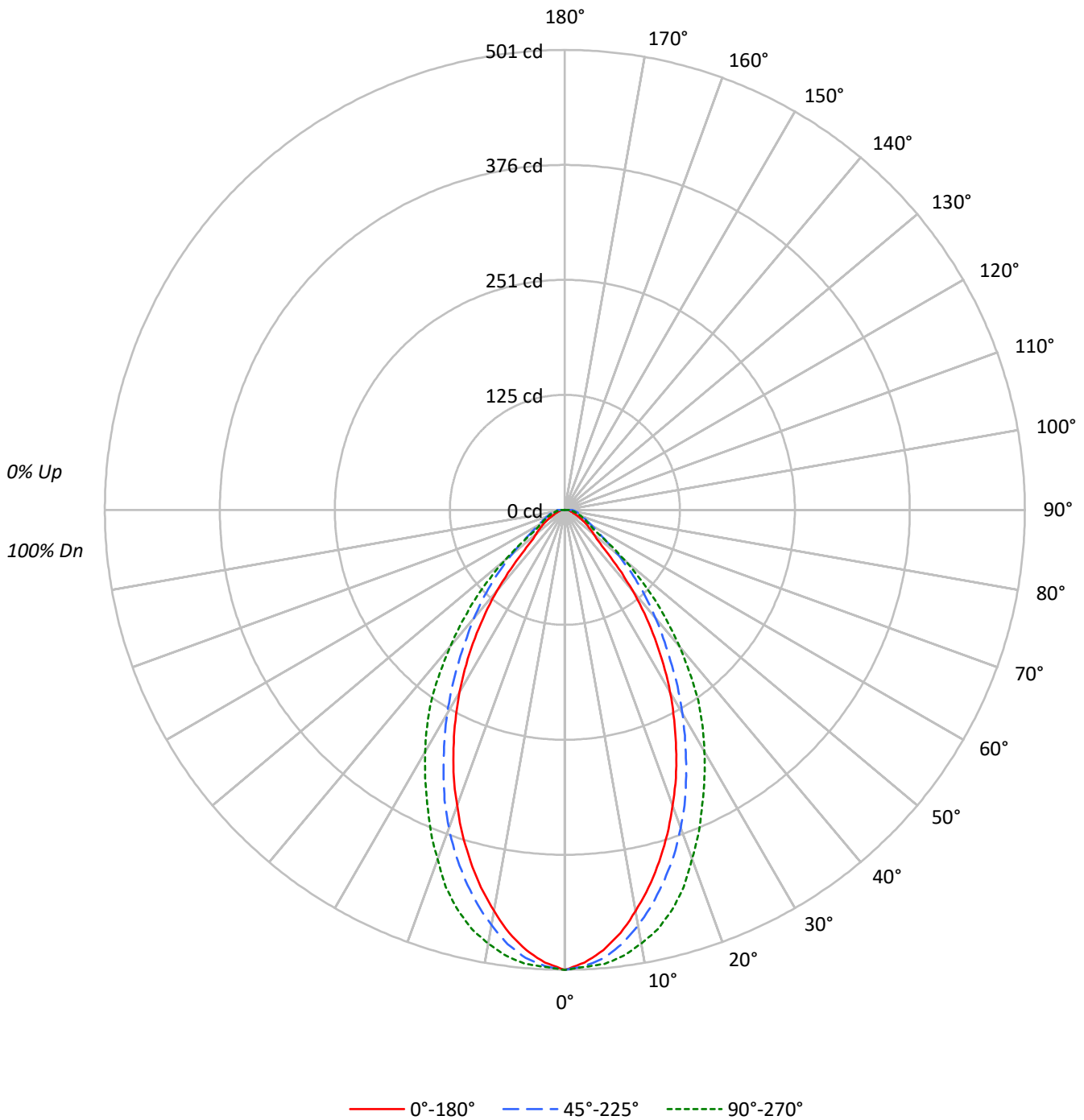
Lumens per Lamp: N/A
Luminaire Lumens: 604.5 lumens
Efficiency: N/A
Efficacy: 23.4 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46				46
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42				42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9247	9247	9247
5°	8923	9076	9197
10°	8316	8610	8990
15°	7576	7983	8619
20°	6735	7244	7951
25°	5835	6363	7209
30°	4886	5457	6482
35°	3852	4519	5706
40°	2760	3698	4675
45°	1615	2920	3619
50°	1168	2124	2443
55°	981	1515	1280
60°	786	1229	1092
65°	646	1092	1009
70°	550	1047	950
75°	528	1119	920
80°	584	1371	978
85°	974	2160	1376

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3619 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	7.6
10°-20°	117.6	19.5
20°-30°	144.6	23.9
30°-40°	127.8	21.1
40°-50°	81.6	13.5
50°-60°	39.8	6.6
60°-70°	23.7	3.9
70°-80°	15.1	2.5
80°-90°	8.3	1.4
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°	308.1	51.0
0°-40°	435.9	72.1
0°-60°	557.3	92.2
0°-90°	604.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	501	501	501	501	501	
5°	482	492	490	492	496	45
15°	397	408	418	436	451	111
25°	287	297	312	332	354	131
35°	171	180	201	228	253	106
45°	62	80	112	126	139	52
55°	30	41	47	44	40	27
65°	15	28	25	23	23	15
75°	7	17	16	14	13	8
85°	5	9	10	9	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	501.1	501.1	501.1	501.1	501.1
2.5°	493.7	502.9	497.4	497.4	498.3
5°	481.7	491.8	490.0	491.8	496.5
7.5°	465.0	475.2	477.0	484.4	490.0
10°	443.8	453.9	459.5	471.5	479.8
12.5°	421.6	431.7	440.1	455.8	467.8
15°	396.6	407.7	417.9	436.4	451.2
17.5°	370.7	381.8	394.8	413.2	430.8
20°	343.0	353.2	368.9	386.4	404.9
22.5°	316.2	325.4	342.1	358.7	380.9
25°	286.6	296.8	312.5	331.9	354.1
27.5°	257.9	268.1	283.8	306.0	329.1
30°	229.3	238.5	256.1	279.2	304.2
32.5°	199.7	208.9	228.4	253.3	279.2
35°	171.0	180.3	200.6	228.4	253.3
37.5°	142.4	152.5	175.7	201.5	222.8
40°	114.6	126.7	153.5	175.7	194.1
42.5°	86.9	103.5	132.2	150.7	165.5
45°	61.9	79.5	111.9	125.7	138.7
47.5°	47.1	61.0	92.4	102.6	110.9
50°	40.7	49.9	74.0	81.4	85.1
52.5°	35.1	44.4	59.2	61.9	60.1
55°	30.5	40.7	47.1	44.4	39.8
57.5°	25.9	37.9	38.8	33.3	34.2
60°	21.3	34.2	33.3	28.7	29.6
62.5°	17.6	31.4	28.7	25.9	25.9
65°	14.8	27.7	25.0	23.1	23.1
67.5°	12.0	25.0	22.2	20.3	20.3
70°	10.2	22.2	19.4	17.6	17.6
72.5°	9.2	19.4	17.6	15.7	15.7
75°	7.4	16.6	15.7	13.9	12.9
77.5°	6.5	13.9	13.9	12.9	11.1
80°	5.5	12.0	12.9	11.1	9.2
82.5°	5.5	11.1	11.1	10.2	7.4
85°	4.6	9.2	10.2	9.2	6.5
87.5°	2.8	8.3	8.3	7.4	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)