

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S122RDRP-S675D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S122RDRP-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

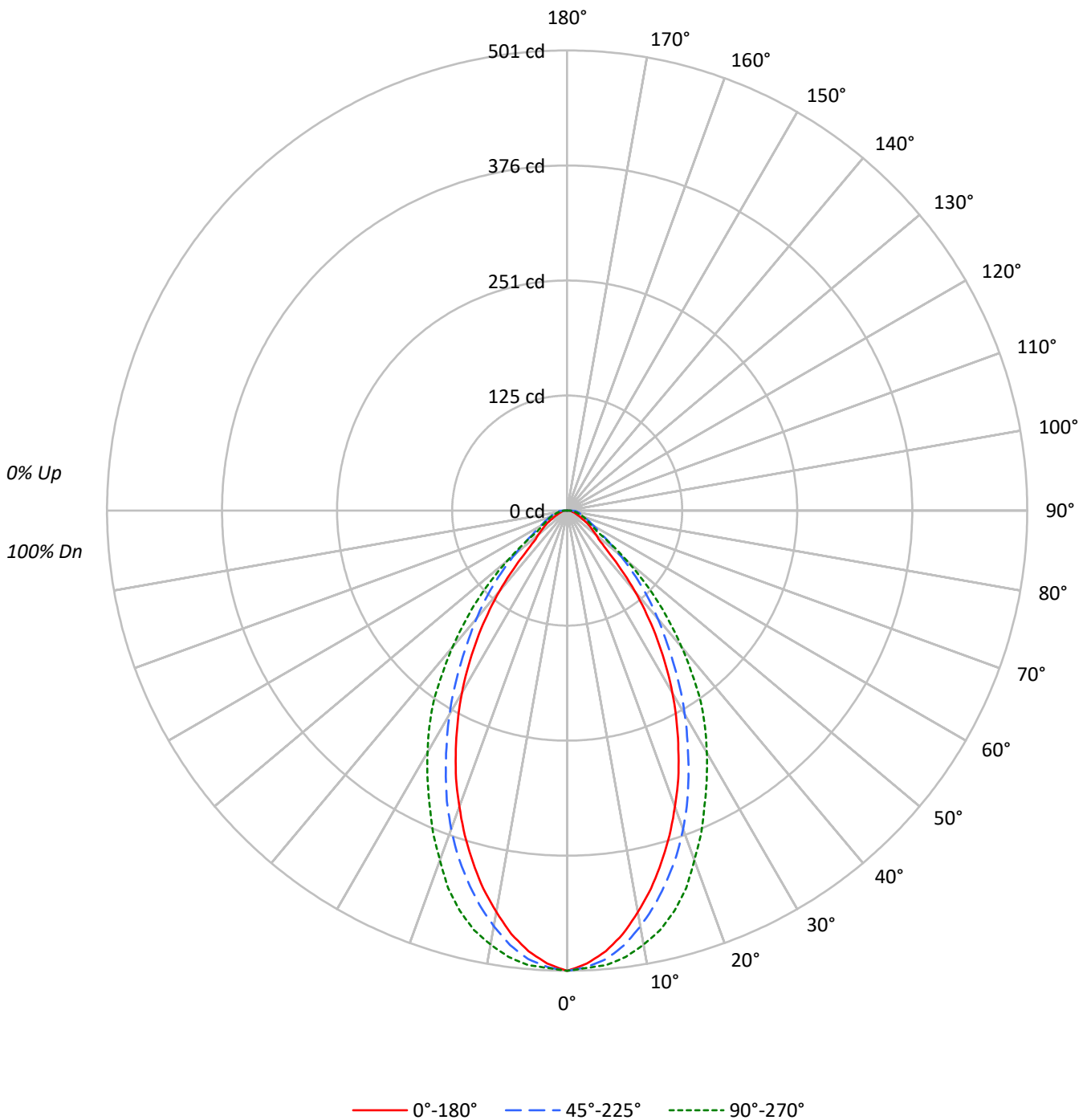
Lumens per Lamp: N/A
Luminaire Lumens: 604.5 lumens
Efficiency: N/A
Efficacy: 23.4 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (A_{in}): 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	101	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.76	11.03	10.12	11.35	11.66	9.28	10.56	9.65	10.88	11.19
	3H	10.93	12.07	11.31	12.40	12.77	10.84	11.98	11.22	12.31	12.68
	4H	11.36	12.42	11.76	12.77	13.16	11.53	12.59	11.93	12.94	13.32
	6H	11.71	12.68	12.12	13.05	13.45	12.17	13.15	12.59	13.52	13.91
	8H	11.90	12.83	12.33	13.22	13.62	12.46	13.39	12.89	13.78	14.18
	12H	12.12	13.00	12.55	13.38	13.81	12.78	13.66	13.21	14.05	14.48
4H	2H	10.26	11.32	10.66	11.67	12.06	9.89	10.95	10.29	11.30	11.68
	3H	11.91	12.78	12.32	13.19	13.59	11.68	12.56	12.10	12.96	13.37
	4H	12.67	13.45	13.10	13.87	14.31	12.52	13.31	12.96	13.73	14.17
	6H	13.27	13.95	13.73	14.39	14.86	13.38	14.06	13.84	14.50	14.97
	8H	13.57	14.20	14.03	14.65	15.12	13.77	14.40	14.24	14.85	15.32
	12H	13.88	14.44	14.36	14.92	15.40	14.21	14.77	14.69	15.25	15.73
8H	4H	13.08	13.72	13.55	14.17	14.64	12.98	13.62	13.45	14.06	14.54
	6H	14.03	14.55	14.54	15.05	15.53	14.09	14.61	14.59	15.11	15.59
	8H	14.58	15.05	15.10	15.56	16.05	14.67	15.14	15.19	15.65	16.14
	12H	15.14	15.55	15.65	16.05	16.62	15.34	15.75	15.85	16.25	16.82
12H	4H	13.16	13.72	13.64	14.20	14.68	13.06	13.63	13.55	14.11	14.58
	6H	14.22	14.69	14.74	15.20	15.69	14.27	14.74	14.79	15.26	15.75
	8H	14.91	15.32	15.42	15.82	16.39	14.98	15.40	15.50	15.89	16.47