

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: P1058080

Luminaire Tested: S122RDRP-S675D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S122RDRP-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

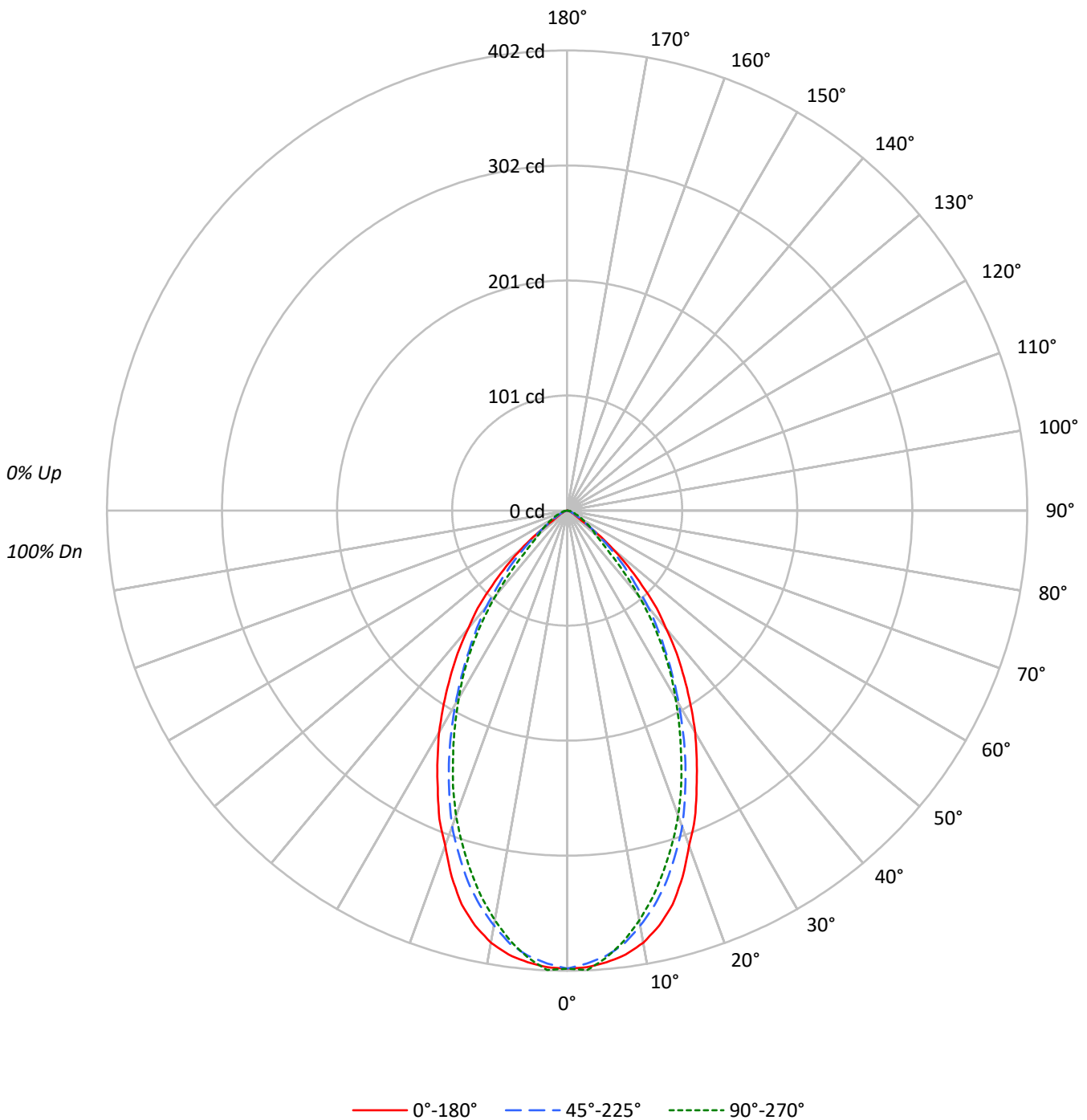
Lumens per Lamp: N/A
Luminaire Lumens: 430.3 lumens
Efficiency: N/A
Efficacy: 16.7 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	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



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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	2.84	4.00	3.21	4.32	4.63	6.24	7.40	6.60	7.71	8.03
	3H	3.36	4.38	3.74	4.72	5.08	6.97	7.99	7.35	8.32	8.69
	4H	3.50	4.44	3.90	4.80	5.18	7.18	8.13	7.59	8.48	8.87
	6H	3.57	4.44	3.99	4.81	5.20	7.33	8.20	7.75	8.57	8.97
	8H	3.57	4.39	4.01	4.78	5.19	7.37	8.18	7.80	8.57	8.98
	12H	3.54	4.32	3.97	4.70	5.13	7.37	8.15	7.80	8.53	8.96
4H	2H	3.15	4.10	3.55	4.45	4.84	6.20	7.15	6.61	7.50	7.89
	3H	3.81	4.58	4.22	4.98	5.39	7.08	7.85	7.49	8.25	8.66
	4H	4.05	4.73	4.49	5.16	5.60	7.36	8.04	7.80	8.47	8.91
	6H	4.17	4.75	4.64	5.20	5.67	7.59	8.17	8.05	8.62	9.09
	8H	4.18	4.73	4.66	5.18	5.65	7.63	8.18	8.10	8.63	9.10
	12H	4.15	4.63	4.64	5.11	5.59	7.65	8.13	8.14	8.61	9.09
8H	4H	4.16	4.70	4.63	5.15	5.63	7.29	7.84	7.76	8.29	8.76
	6H	4.32	4.76	4.83	5.26	5.75	7.55	7.99	8.06	8.49	8.98
	8H	4.37	4.76	4.90	5.28	5.78	7.61	8.01	8.14	8.53	9.02
	12H	4.35	4.69	4.86	5.19	5.77	7.67	8.02	8.19	8.52	9.09
12H	4H	4.14	4.62	4.63	5.11	5.58	7.24	7.72	7.73	8.21	8.68
	6H	4.32	4.72	4.85	5.24	5.73	7.50	7.90	8.03	8.42	8.91
	8H	4.39	4.74	4.91	5.24	5.81	7.59	7.93	8.11	8.43	9.01