

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: P1058035

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058035  
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-S675D830-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, 80 CRI LEDS  
Ballast/Driver: -

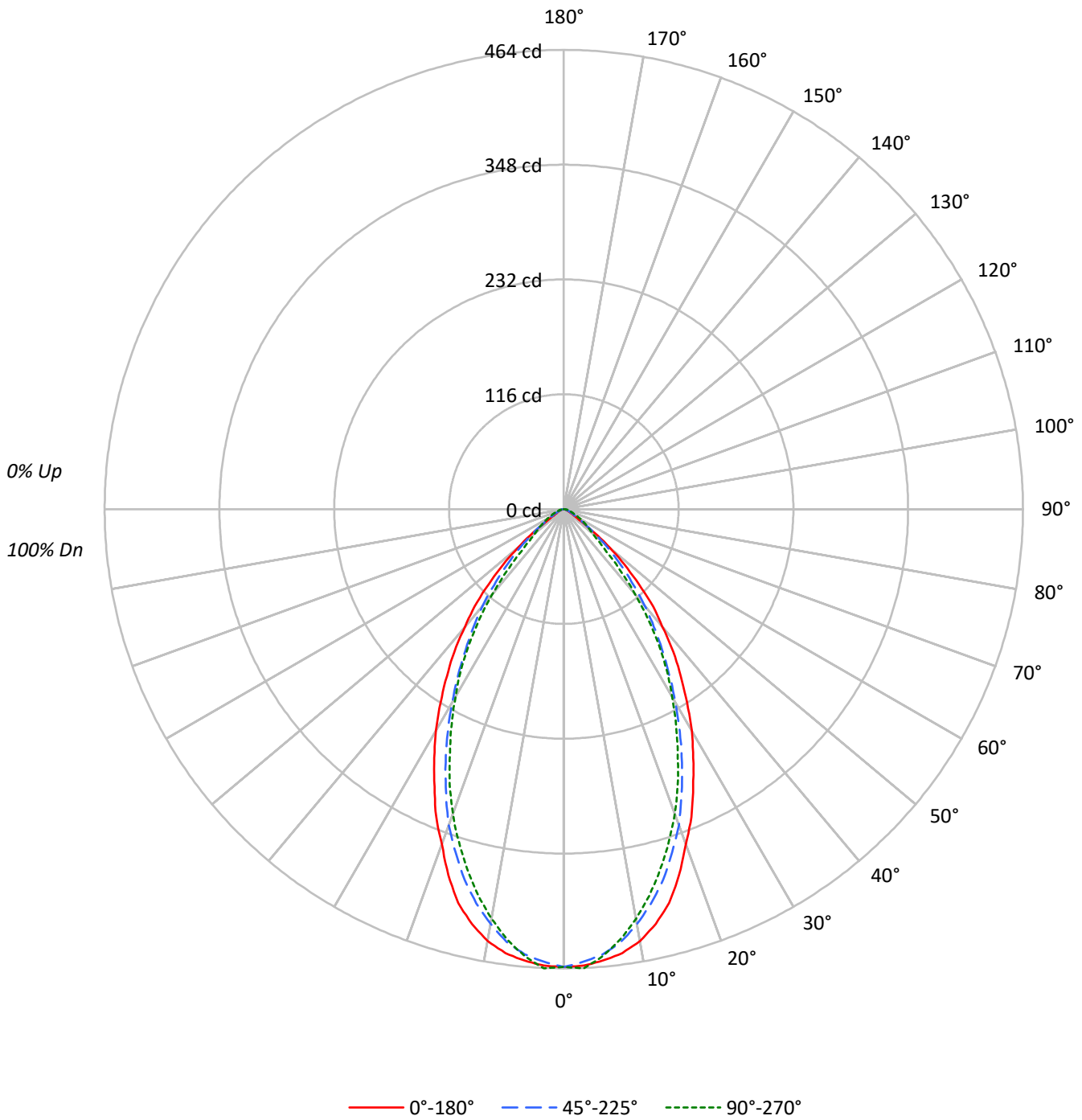
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 497.5 lumens  
Efficiency: N/A  
Efficacy: 19.3 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				
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°	8536	8536	8536
5°	8482	8363	8396
10°	8304	7975	7871
15°	7867	7408	7196
20°	7071	6673	6437
25°	6297	5752	5546
30°	5508	4800	4662
35°	4638	3890	3764
40°	3736	3069	2712
45°	2795	2216	1615
50°	1748	1432	1059
55°	595	772	862
60°	340	476	683
65°	240	323	524
70°	200	248	399
75°	128	200	328
80°	96	191	298
85°	0	0	191

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2795 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.6	8.6
10°-20°	109.1	21.9
20°-30°	131.4	26.4
30°-40°	112.3	22.6
40°-50°	65.8	13.2
50°-60°	23.8	4.8
60°-70°	8.5	1.7
70°-80°	3.4	0.7
80°-90°	0.6	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°	283.2	56.9
0°-40°	395.5	79.5
0°-60°	485.1	97.5
0°-90°	497.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	497.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	463	463	463	463	463	
5°	458	459	452	453	453	43
15°	412	405	388	380	377	114
25°	309	296	282	278	272	142
35°	206	190	173	171	167	129
45°	107	96	85	71	62	83
55°	18	26	24	25	27	23
65°	6	6	7	10	12	6
75°	2	3	3	4	5	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°	462.6	462.6	462.6	462.6	462.6
2.5°	461.6	462.6	457.9	462.6	464.4
5°	457.9	458.9	451.5	453.3	453.3
7.5°	452.4	451.5	441.3	439.5	438.6
10°	443.2	440.4	425.6	422.9	420.1
12.5°	429.3	423.8	408.1	403.5	399.8
15°	411.8	405.3	387.8	380.4	376.7
17.5°	387.8	380.4	363.8	356.4	352.7
20°	360.1	352.7	339.8	331.5	327.8
22.5°	337.0	325.0	311.1	305.6	301.0
25°	309.3	296.4	282.5	277.9	272.4
27.5°	283.4	267.7	253.9	250.2	245.6
30°	258.5	241.9	225.3	225.3	218.8
32.5°	231.7	216.0	198.5	197.6	193.9
35°	205.9	190.2	172.7	170.8	167.1
37.5°	181.9	166.2	149.6	144.0	139.4
40°	155.1	141.3	127.4	118.2	112.6
42.5°	133.9	118.2	104.3	93.3	85.9
45°	107.1	96.0	84.9	71.1	61.9
47.5°	83.1	75.7	66.5	50.8	46.2
50°	60.9	57.2	49.9	37.9	36.9
52.5°	38.8	40.6	36.0	29.5	32.3
55°	18.5	25.9	24.0	24.9	26.8
57.5°	12.0	12.9	17.5	20.3	22.2
60°	9.2	9.2	12.9	16.6	18.5
62.5°	7.4	7.4	10.2	13.8	14.8
65°	5.5	6.5	7.4	10.2	12.0
67.5°	4.6	4.6	5.5	8.3	9.2
70°	3.7	3.7	4.6	6.5	7.4
72.5°	2.8	2.8	3.7	5.5	5.5
75°	1.8	2.8	2.8	3.7	4.6
77.5°	1.8	1.8	1.8	2.8	3.7
80°	0.9	0.9	1.8	1.8	2.8
82.5°	0.9	0.9	0.9	0.9	1.8
85°	0.0	0.0	0.0	0.9	0.9
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)