

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: P1058083

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S675D930-X4F0-XX-UDD-WVL-B  
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

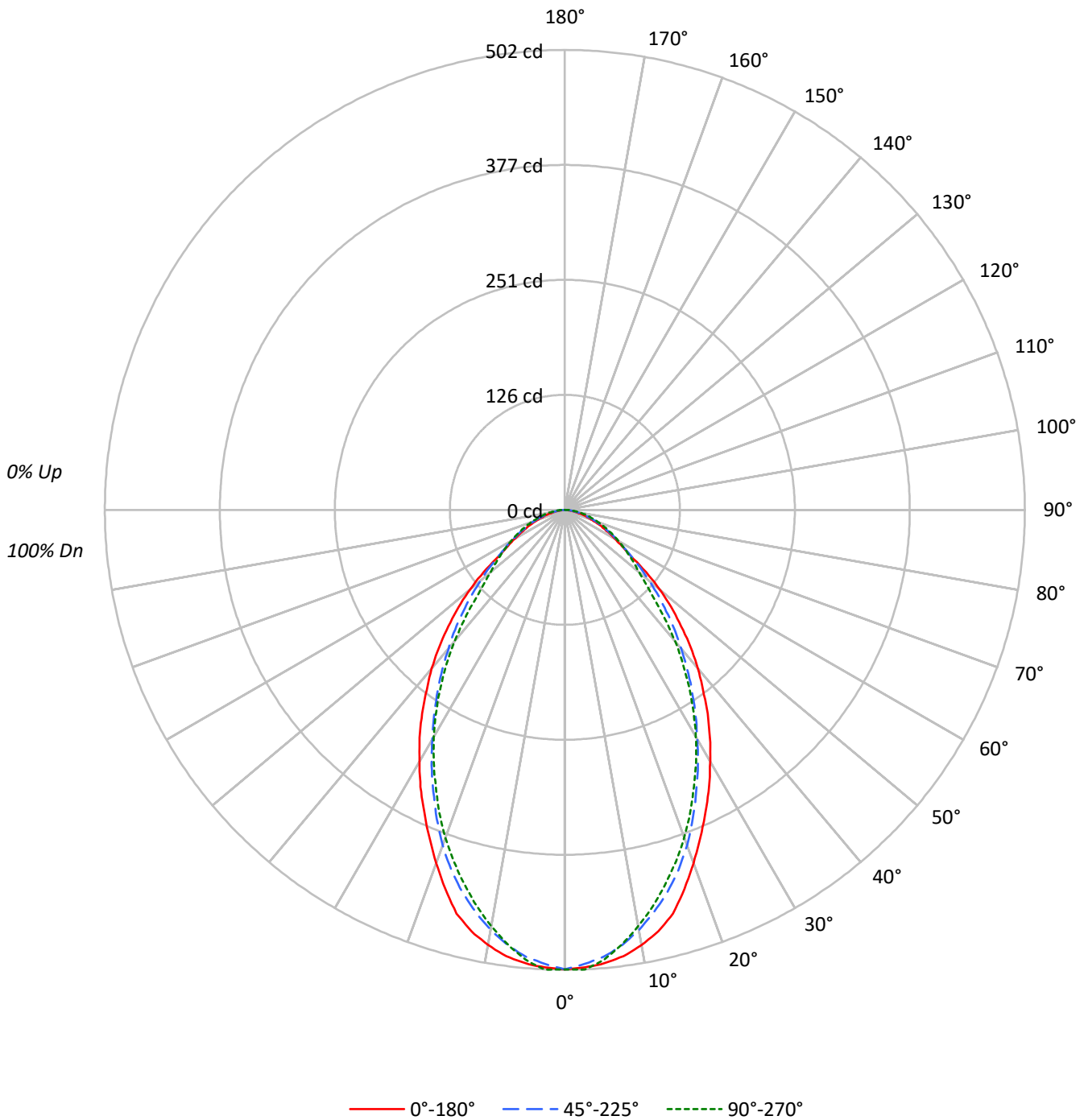
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 761.8 lumens  
Efficiency: N/A  
Efficacy: 29.5 lumens/watt  
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02  
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68				
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61				
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44				
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41				
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37				
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9256	9256	9256
5°	9202	9069	9128
10°	9039	8724	8649
15°	8713	8255	8086
20°	8061	7654	7482
25°	7399	6910	6782
30°	6756	6160	6092
35°	6118	5451	5325
40°	5444	4753	4502
45°	4689	4084	3606
50°	3875	3439	3026
55°	2802	2854	2725
60°	2329	2447	2476
65°	1987	2126	2266
70°	1640	1894	2066
75°	1369	1597	1882
80°	1020	1275	1700
85°	339	677	1524

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4689 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.4	6.1
10°-20°	122.1	16.0
20°-30°	158.0	20.7
30°-40°	155.0	20.3
40°-50°	122.0	16.0
50°-60°	80.0	10.5
60°-70°	48.7	6.4
70°-80°	24.4	3.2
80°-90°	5.2	0.7
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°	326.5	42.9
0°-40°	481.5	63.2
0°-60°	683.5	89.7
0°-90°	761.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	761.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	497	497	490	493	493	47
15°	456	450	432	426	423	127
25°	363	351	339	338	333	167
35°	272	256	242	241	236	169
45°	180	168	156	145	138	139
55°	87	92	89	86	85	83
65°	46	46	49	51	52	45
75°	19	20	22	26	26	20
85°	2	2	3	6	7	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	501.6	501.6	501.6	501.6	501.6
2.5°	500.0	500.8	496.0	500.8	502.4
5°	496.8	496.8	489.6	492.8	492.8
7.5°	491.2	490.4	479.2	479.2	478.4
10°	482.4	479.2	465.6	463.2	461.6
12.5°	471.2	465.6	449.7	445.7	443.3
15°	456.1	449.7	432.1	426.5	423.3
17.5°	433.7	427.3	412.1	405.7	402.5
20°	410.5	400.9	389.8	384.2	381.0
22.5°	386.6	375.4	365.0	361.0	357.8
25°	363.4	351.4	339.4	337.8	333.1
27.5°	341.0	326.7	314.7	313.9	309.9
30°	317.1	301.9	289.1	289.9	285.9
32.5°	294.7	280.3	265.2	266.0	261.2
35°	271.6	256.4	242.0	241.2	236.4
37.5°	247.6	233.2	219.6	216.4	211.7
40°	226.0	211.7	197.3	191.7	186.9
42.5°	202.9	190.1	177.3	168.5	162.1
45°	179.7	168.5	156.5	145.4	138.2
47.5°	157.3	148.6	138.2	124.6	119.8
50°	135.0	128.6	119.8	107.8	105.4
52.5°	111.8	109.4	103.8	95.8	95.0
55°	87.1	91.8	88.7	85.5	84.7
57.5°	73.5	74.3	76.7	75.9	75.9
60°	63.1	63.1	66.3	67.1	67.1
62.5°	53.5	54.3	57.5	59.1	59.1
65°	45.5	46.3	48.7	51.1	51.9
67.5°	37.5	39.1	41.5	43.9	44.7
70°	30.4	31.9	35.1	37.5	38.3
72.5°	24.8	25.6	28.8	31.1	31.9
75°	19.2	20.0	22.4	25.6	26.4
77.5°	13.6	15.2	17.6	20.0	21.6
80°	9.6	10.4	12.0	15.2	16.0
82.5°	5.6	6.4	8.0	10.4	11.2
85°	1.6	2.4	3.2	5.6	7.2
87.5°	0.0	0.0	0.0	1.6	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)