

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: P1058076

Luminaire Tested: S122RDR-S675D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-55 )  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S675D927-X4F0-XX-UDD-WVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

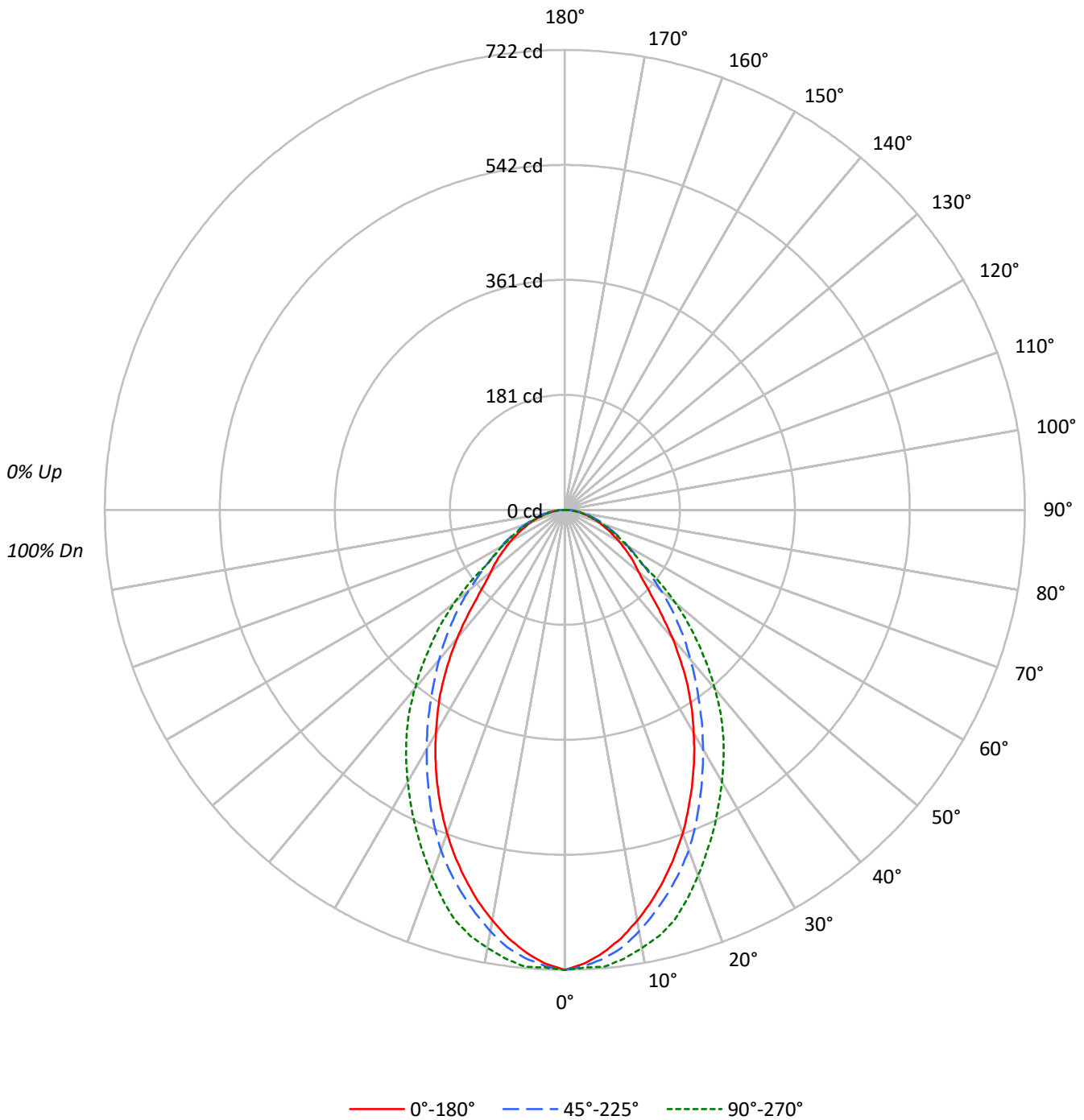
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1177.5 lumens  
Efficiency: N/A  
Efficacy: 45.6 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05  
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	67				
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59				
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				
10	59	47	40	35	58	46	40	35	46	39	35	45	39	35	44	38	34	33				

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

	0°	45°	90°
0°	13328	13328	13328
5°	12918	13090	13335
10°	12267	12588	13082
15°	11483	11913	12731
20°	10614	11163	12002
25°	9647	10215	11259
30°	8621	9234	10509
35°	7558	8276	9763
40°	6323	7390	8811
45°	5068	6547	7701
50°	4346	5641	6465
55°	3973	4797	4771
60°	3613	4240	4155
65°	3288	3799	3628
70°	3016	3480	3226
75°	2823	3208	2823
80°	2646	2975	2476
85°	2625	3133	2138

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7701 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.7	5.7
10°-20°	176.5	15.0
20°-30°	232.8	19.8
30°-40°	234.5	19.9
40°-50°	190.8	16.2
50°-60°	130.1	11.0
60°-70°	84.4	7.2
70°-80°	46.5	3.9
80°-90°	15.2	1.3
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°	476.0	40.4
0°-40°	710.5	60.3
0°-60°	1031.4	87.6
0°-90°	1177.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	697	711	707	713	720	65
15°	601	617	624	649	666	168
25°	474	489	502	524	553	217
35°	336	353	367	399	433	208
45°	194	218	251	273	295	153
55°	124	136	149	150	148	111
65°	75	89	87	82	83	75
75°	40	49	45	40	40	42
85°	12	16	15	12	10	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	722.3	722.3	722.3	722.3	722.3
2.5°	713.0	724.6	716.8	717.6	719.2
5°	697.4	710.6	706.7	713.0	719.9
7.5°	678.0	691.2	692.8	702.1	710.6
10°	654.7	669.5	671.8	685.8	698.2
12.5°	629.1	645.4	648.5	668.7	685.0
15°	601.1	616.7	623.6	649.3	666.4
17.5°	571.6	586.4	597.2	620.5	640.0
20°	540.5	554.5	568.5	589.5	611.2
22.5°	507.1	522.7	535.9	556.9	581.7
25°	473.8	489.3	501.7	524.2	553.0
27.5°	439.6	455.1	467.5	491.6	522.7
30°	404.6	420.9	433.4	460.5	493.2
32.5°	370.5	386.8	400.7	429.5	463.7
35°	335.5	352.6	367.4	399.2	433.4
37.5°	298.2	317.6	336.3	368.1	401.5
40°	262.5	284.3	306.8	336.3	365.8
42.5°	226.8	250.9	278.8	303.7	330.8
45°	194.2	218.2	250.9	272.6	295.1
47.5°	168.5	188.7	223.7	241.5	261.7
50°	151.4	165.4	196.5	210.5	225.2
52.5°	137.5	149.1	170.9	180.2	187.9
55°	123.5	135.9	149.1	149.9	148.3
57.5°	109.5	123.5	130.5	125.0	128.1
60°	97.9	111.8	114.9	109.5	112.6
62.5°	85.4	101.0	101.0	95.5	97.1
65°	75.3	89.3	87.0	82.3	83.1
67.5°	65.2	79.2	75.3	70.7	70.7
70°	55.9	69.1	64.5	59.8	59.8
72.5°	47.4	58.2	55.1	49.7	48.9
75°	39.6	48.9	45.0	40.4	39.6
77.5°	31.8	39.6	36.5	32.6	31.1
80°	24.9	31.8	28.0	24.9	23.3
82.5°	18.6	24.1	21.0	17.9	16.3
85°	12.4	16.3	14.8	11.6	10.1
87.5°	6.2	10.9	9.3	7.8	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)