

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: P1058094

Luminaire Tested: S122RDR-S675D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058094  
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-S675D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

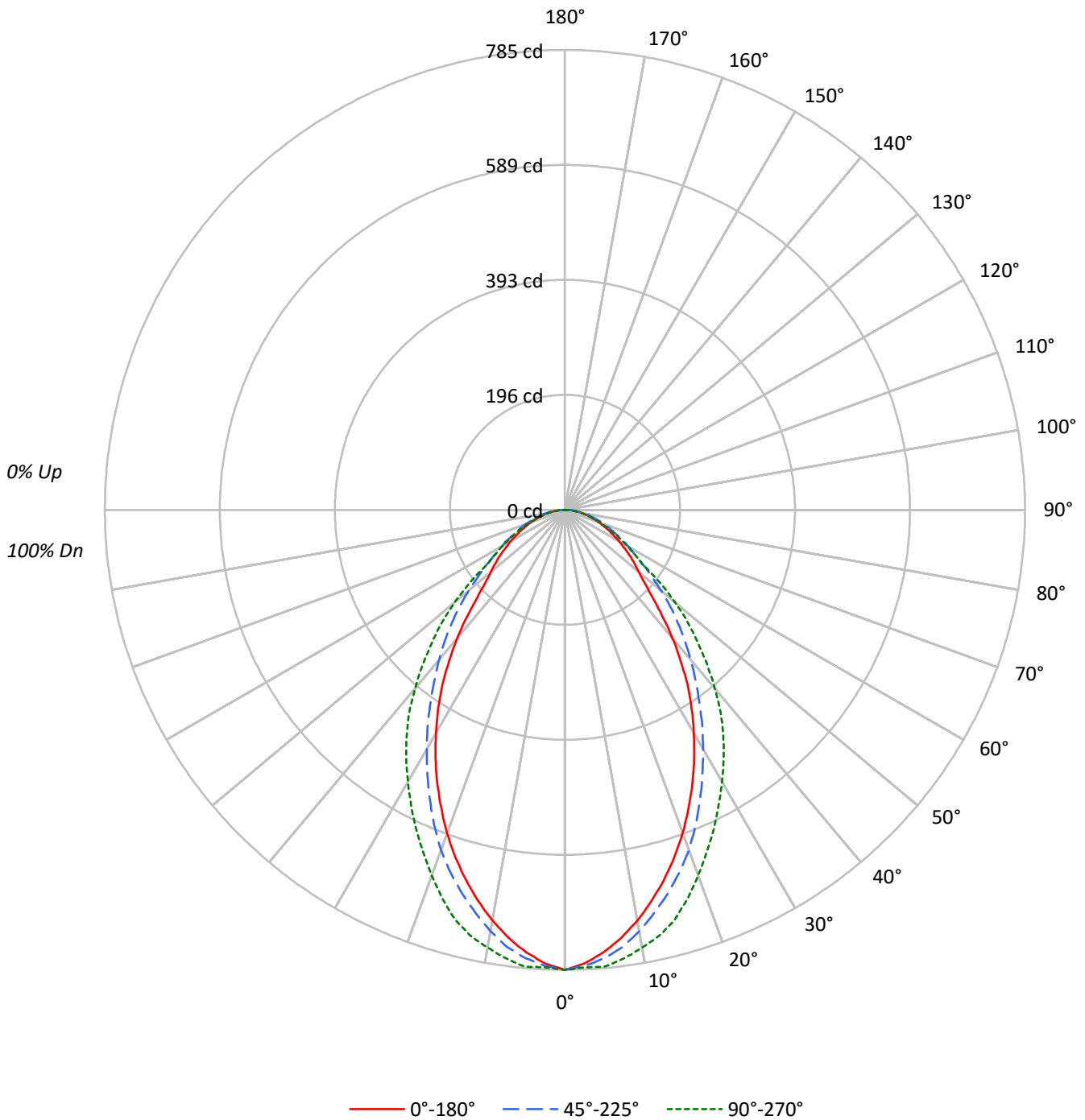
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1279.8 lumens  
Efficiency: N/A  
Efficacy: 49.6 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	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	100	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°	14485	14485	14485
5°	14040	14227	14494
10°	13333	13682	14220
15°	12480	12948	13835
20°	11537	12134	13045
25°	10483	11102	12236
30°	9371	10036	11421
35°	8215	8995	10610
40°	6872	8031	9577
45°	5506	7114	8372
50°	4725	6132	7027
55°	4317	5215	5186
60°	3927	4609	4517
65°	3576	4126	3943
70°	3280	3782	3507
75°	3066	3493	3066
80°	2869	3230	2688
85°	2858	3387	2329

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8372 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	5.7
10°-20°	191.9	15.0
20°-30°	253.1	19.8
30°-40°	254.8	19.9
40°-50°	207.4	16.2
50°-60°	141.4	11.0
60°-70°	91.8	7.2
70°-80°	50.5	3.9
80°-90°	16.5	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°	517.4	40.4
0°-40°	772.2	60.3
0°-60°	1121.0	87.6
0°-90°	1279.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	758	772	768	775	782	71
15°	653	670	678	706	724	183
25°	515	532	545	570	601	236
35°	365	383	399	434	471	226
45°	211	237	273	296	321	166
55°	134	148	162	163	161	120
65°	82	97	94	90	90	81
75°	43	53	49	44	43	46
85°	14	18	16	13	11	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	785.0	785.0	785.0	785.0	785.0
2.5°	774.9	787.6	779.1	780.0	781.6
5°	758.0	772.4	768.1	774.9	782.5
7.5°	736.9	751.3	752.9	763.1	772.4
10°	711.6	727.6	730.2	745.3	758.9
12.5°	683.7	701.5	704.8	726.8	744.5
15°	653.3	670.2	677.8	705.7	724.2
17.5°	621.3	637.3	649.1	674.4	695.5
20°	587.5	602.7	617.9	640.7	664.3
22.5°	551.2	568.1	582.4	605.2	632.2
25°	514.9	531.8	545.3	569.8	601.0
27.5°	477.8	494.6	508.2	534.3	568.1
30°	439.8	457.5	471.0	500.6	536.0
32.5°	402.6	420.4	435.6	466.8	503.9
35°	364.7	383.2	399.3	433.9	471.0
37.5°	324.1	345.2	365.5	400.1	436.4
40°	285.3	308.9	333.4	365.5	397.6
42.5°	246.5	272.6	303.0	330.0	359.6
45°	211.0	237.2	272.6	296.3	320.8
47.5°	183.2	205.1	243.1	262.5	284.5
50°	164.6	179.8	213.6	228.8	244.8
52.5°	149.4	162.1	185.7	195.8	204.3
55°	134.2	147.7	162.1	162.9	161.2
57.5°	119.0	134.2	141.8	135.9	139.3
60°	106.4	121.6	124.9	119.0	122.4
62.5°	92.9	109.7	109.7	103.8	105.5
65°	81.9	97.1	94.5	89.5	90.3
67.5°	70.9	86.1	81.9	76.8	76.8
70°	60.8	75.1	70.1	65.0	65.0
72.5°	51.5	63.3	59.9	54.0	53.2
75°	43.0	53.2	49.0	43.9	43.0
77.5°	34.6	43.0	39.7	35.5	33.8
80°	27.0	34.6	30.4	27.0	25.3
82.5°	20.3	26.2	22.8	19.4	17.7
85°	13.5	17.7	16.0	12.7	11.0
87.5°	6.8	11.8	10.1	8.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)