

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: P1059372

Luminaire Tested: S123RDR-S775D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDR-S775D927-X4F0-XX-UDD-WVL-W  
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

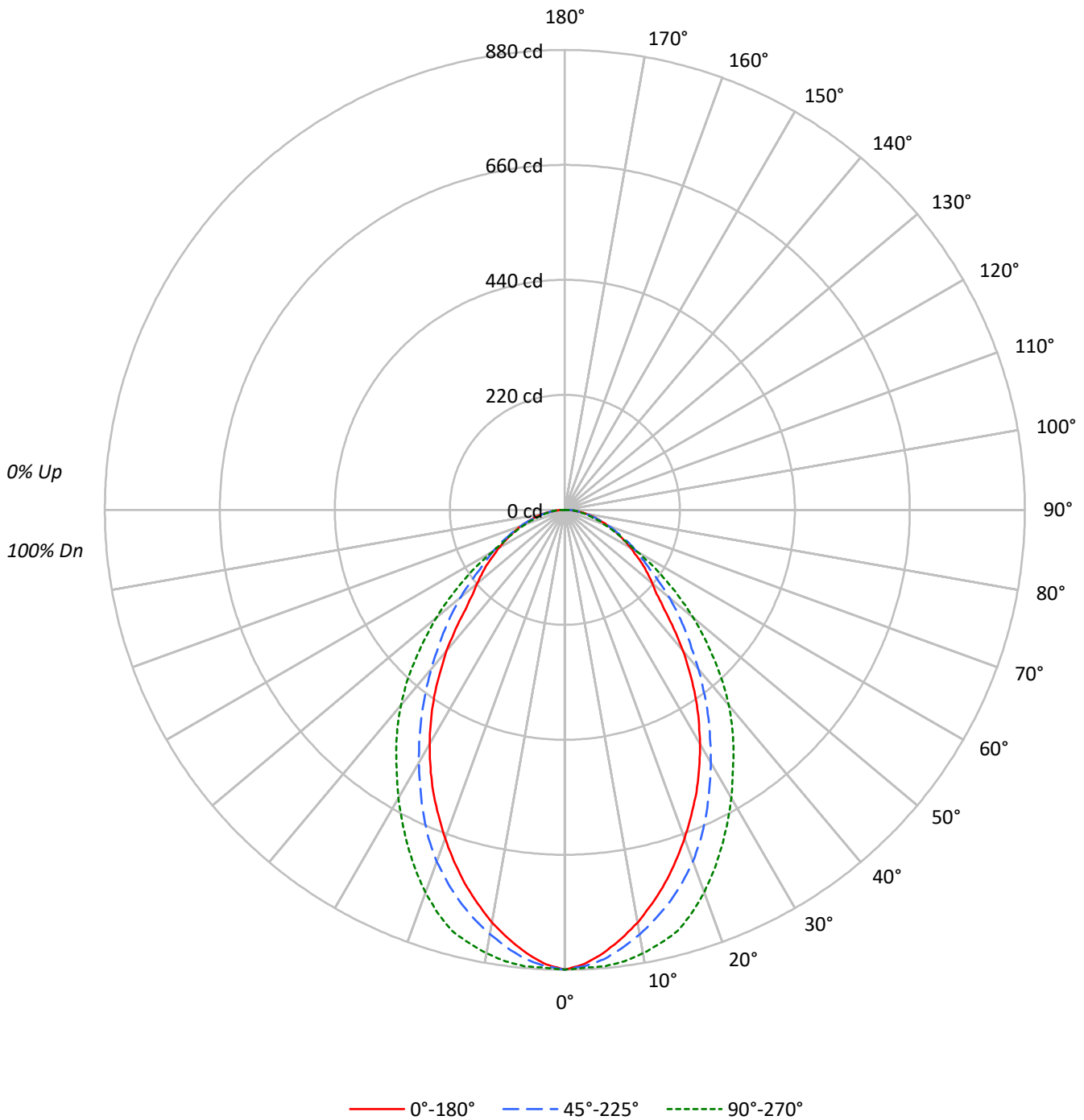
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1545.9 lumens  
Efficiency: N/A  
Efficacy: 59.9 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.1 / 1.09  
Luminous Opening: Rectangular (W 0.23' 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75		
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66		
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58		
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46		
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41		
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38		
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34		
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32		

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

	0°	45°	90°
0°	10330	10330	10330
5°	10031	10174	10334
10°	9560	9831	10273
15°	8992	9434	10142
20°	8364	8950	9736
25°	7719	8299	9202
30°	7011	7575	8633
35°	6240	6838	8063
40°	5385	6093	7474
45°	4450	5394	6701
50°	3997	4757	5851
55°	3703	4062	4852
60°	3415	3699	3715
65°	3176	3345	3115
70°	2990	3042	2729
75°	2817	2713	2405
80°	2664	2455	2252
85°	2546	2748	2546

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6701 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	5.3
10°-20°	219.5	14.2
20°-30°	297.0	19.2
30°-40°	305.2	19.7
40°-50°	256.3	16.6
50°-60°	183.8	11.9
60°-70°	117.0	7.6
70°-80°	64.3	4.2
80°-90°	21.4	1.4
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°	598.0	38.7
0°-40°	903.1	58.4
0°-60°	1343.2	86.9
0°-90°	1545.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1545.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	851	866	863	869	877	80
15°	740	760	776	809	834	207
25°	596	618	640	675	710	273
35°	435	459	477	519	562	271
45°	268	292	325	372	404	212
55°	181	185	198	225	237	162
65°	114	121	120	114	112	114
75°	62	68	60	55	53	66
85°	19	20	20	21	19	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	879.7	879.7	879.7	879.7	879.7
2.5°	869.9	882.0	873.7	874.4	876.7
5°	851.0	866.1	863.1	869.1	876.7
7.5°	827.5	844.2	844.9	859.3	871.4
10°	801.8	819.2	824.5	846.4	861.6
12.5°	771.5	790.4	801.8	829.0	848.7
15°	739.7	760.1	776.0	809.3	834.3
17.5°	704.9	726.8	747.3	782.8	808.6
20°	669.3	692.7	716.2	749.5	779.1
22.5°	632.2	656.4	680.6	713.2	745.7
25°	595.8	618.5	640.5	675.3	710.2
27.5°	556.5	579.9	598.9	637.5	673.8
30°	517.1	540.6	558.7	598.9	636.7
32.5°	476.2	500.4	517.1	558.7	598.1
35°	435.3	458.8	477.0	519.4	562.5
37.5°	392.2	417.9	436.1	483.8	526.2
40°	351.3	375.5	397.5	447.4	487.6
42.5°	308.9	333.9	358.9	410.3	447.4
45°	268.0	291.5	324.8	371.7	403.5
47.5°	238.5	253.6	292.2	331.6	361.9
50°	218.8	224.9	260.4	295.3	320.3
52.5°	199.1	203.7	227.9	259.7	278.6
55°	180.9	184.7	198.4	224.9	237.0
57.5°	161.3	165.0	176.4	191.5	198.4
60°	145.4	148.4	157.5	159.7	158.2
62.5°	129.5	134.0	138.5	133.2	131.0
65°	114.3	121.1	120.4	113.6	112.1
67.5°	100.7	107.5	103.7	96.9	94.6
70°	87.1	93.9	88.6	81.8	79.5
72.5°	74.2	81.8	73.4	67.4	65.9
75°	62.1	68.1	59.8	55.3	53.0
77.5°	50.7	55.3	47.7	43.9	42.4
80°	39.4	42.4	36.3	34.1	33.3
82.5°	28.8	30.3	26.5	28.0	27.3
85°	18.9	19.7	20.4	21.2	18.9
87.5°	9.1	12.9	12.9	12.1	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)