

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: P1059342

Luminaire Tested: S123RDR-S775D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDR-S775D835-X4F0-XX-UDD-SVL-W  
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

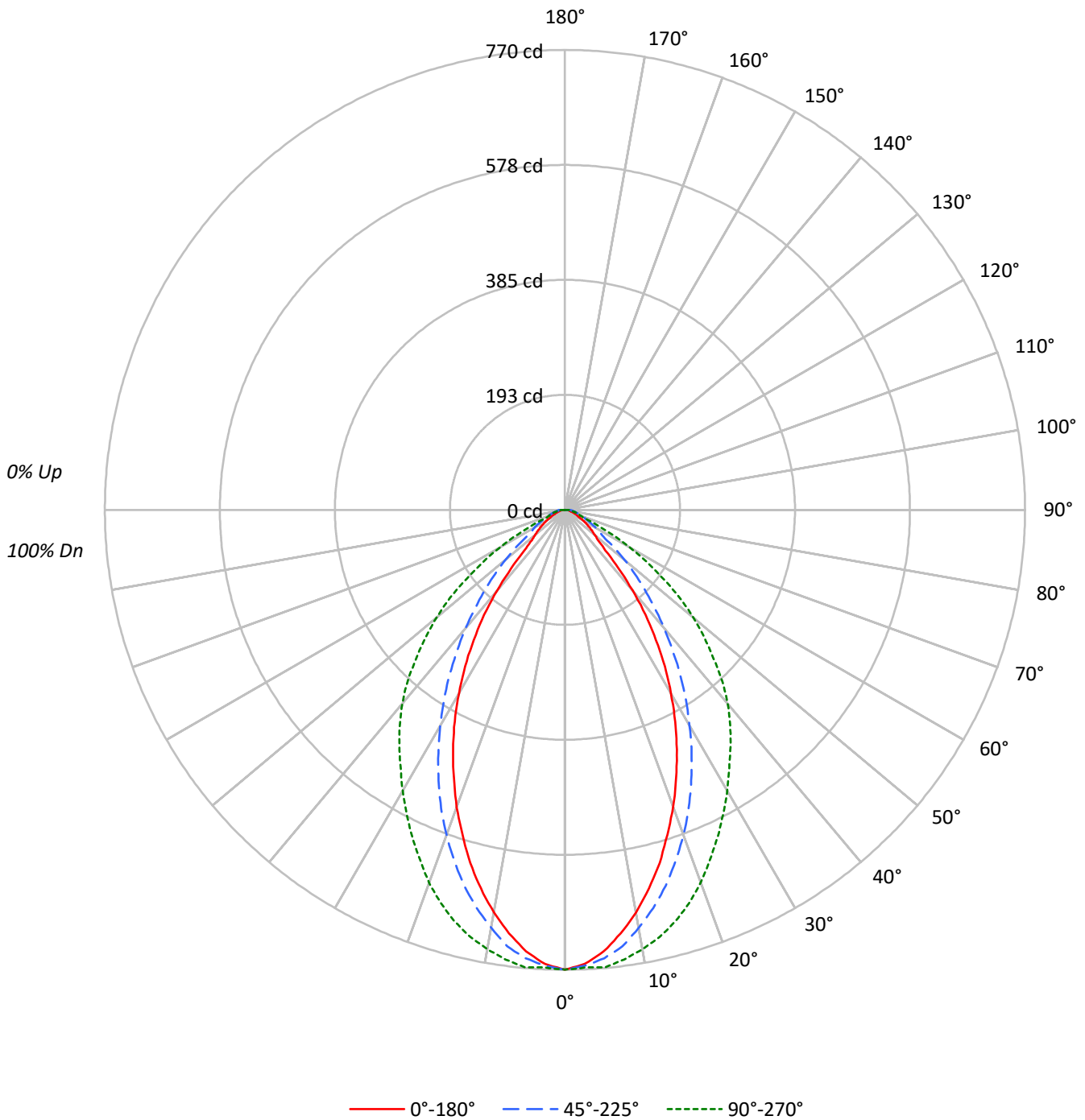
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1033.4 lumens  
Efficiency: N/A  
Efficacy: 40.1 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

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

	0°	45°	90°
0°	9039	9039	9039
5°	8747	8883	9063
10°	8164	8472	8906
15°	7440	7918	8673
20°	6620	7241	8305
25°	5737	6481	7831
30°	4811	5654	7365
35°	3812	4812	6922
40°	2698	3958	6495
45°	1588	3129	5844
50°	1187	2377	5119
55°	999	1605	4111
60°	808	1369	2919
65°	639	1170	1542
70°	560	1016	951
75°	522	953	912
80°	521	1035	906
85°	647	1549	1159

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5844 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.8	6.9
10°-20°	184.1	17.8
20°-30°	234.5	22.7
30°-40°	220.6	21.3
40°-50°	158.9	15.4
50°-60°	91.7	8.9
60°-70°	41.9	4.1
70°-80°	21.0	2.0
80°-90°	9.9	1.0
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°	489.5	47.4
0°-40°	710.0	68.7
0°-60°	960.6	93.0
0°-90°	1033.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1033.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	742	754	754	761	769	69
15°	612	634	651	688	713	171
25°	443	466	500	556	604	203
35°	266	289	336	413	483	165
45°	96	120	188	283	352	81
55°	49	51	78	149	201	44
65°	23	32	42	47	56	23
75°	12	22	21	20	20	12
85°	5	10	12	10	9	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	769.8	769.8	769.8	769.8	769.8
2.5°	761.2	770.8	764.1	765.1	767.0
5°	742.1	754.5	753.6	761.2	768.9
7.5°	715.3	729.7	737.3	748.8	759.3
10°	684.7	701.0	710.5	731.6	746.9
12.5°	649.3	670.4	682.8	710.5	732.5
15°	612.0	634.0	651.3	687.6	713.4
17.5°	570.0	593.9	615.9	658.9	690.5
20°	529.8	552.8	579.5	626.4	664.6
22.5°	485.8	510.7	541.3	591.0	634.0
25°	442.8	465.7	500.2	555.6	604.4
27.5°	399.7	422.7	459.0	520.2	573.8
30°	354.8	378.7	417.0	484.9	543.2
32.5°	310.8	333.8	376.8	450.4	511.6
35°	265.9	288.8	335.7	413.1	482.9
37.5°	221.9	245.8	295.5	382.5	454.3
40°	176.0	201.8	258.2	351.0	423.7
42.5°	132.9	160.7	220.9	318.5	390.2
45°	95.6	119.5	188.4	283.1	351.9
47.5°	74.6	87.0	158.7	246.7	316.5
50°	65.0	66.9	130.1	213.3	280.2
52.5°	56.4	58.3	102.3	181.7	241.9
55°	48.8	50.7	78.4	149.2	200.8
57.5°	41.1	44.0	65.0	118.6	161.6
60°	34.4	38.3	58.3	90.9	124.3
62.5°	27.7	34.4	49.7	66.9	88.9
65°	23.0	32.5	42.1	46.9	55.5
67.5°	19.1	29.6	35.4	33.5	32.5
70°	16.3	26.8	29.6	26.8	27.7
72.5°	13.4	24.9	24.9	23.0	23.0
75°	11.5	22.0	21.0	20.1	20.1
77.5°	9.6	19.1	18.2	17.2	16.3
80°	7.7	15.3	15.3	14.3	13.4
82.5°	6.7	12.4	12.4	12.4	10.5
85°	4.8	10.5	11.5	10.5	8.6
87.5°	3.8	9.6	9.6	8.6	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)