

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: P1059341

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)  
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-S  
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

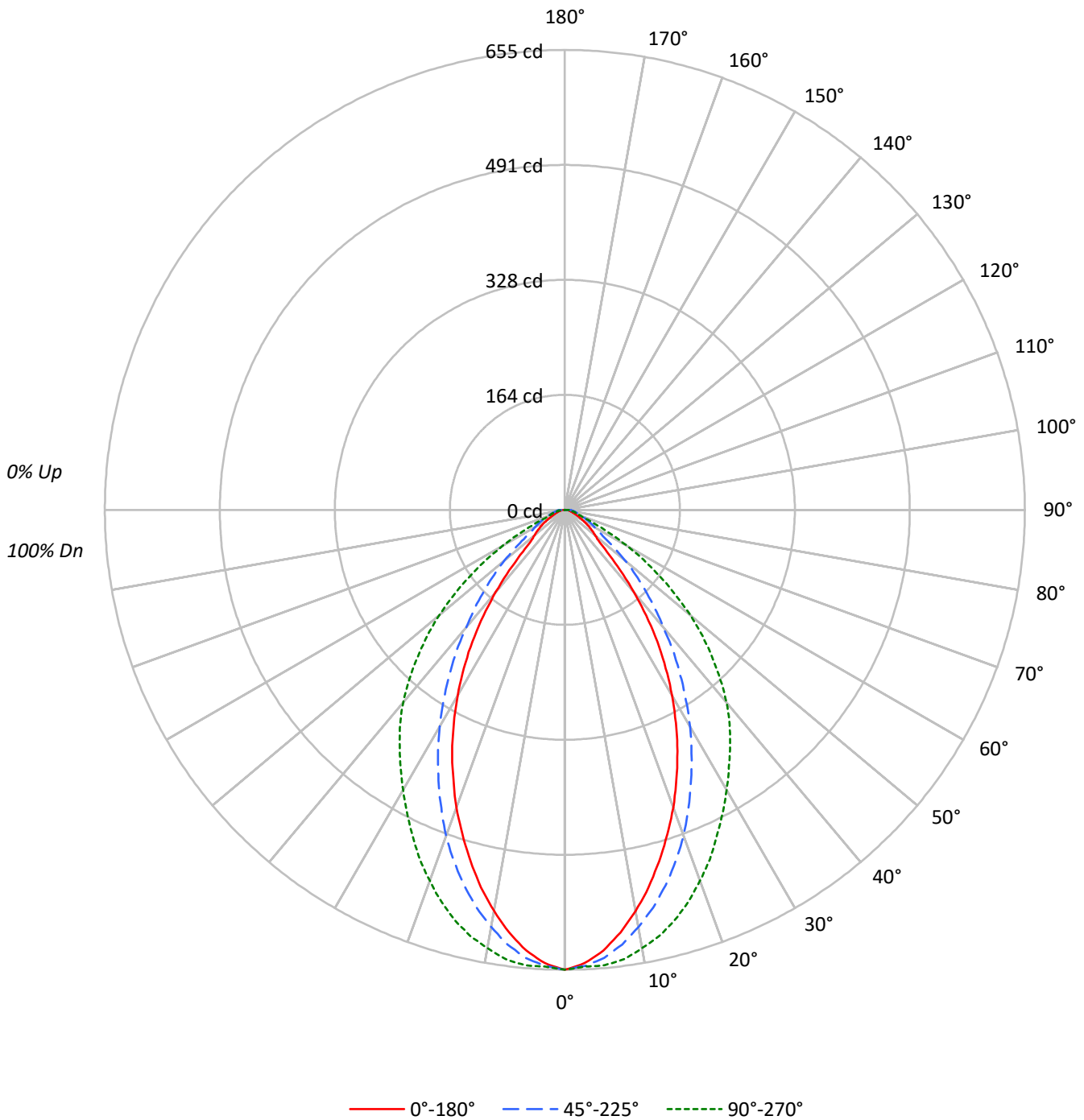
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 877.1 lumens  
Efficiency: N/A  
Efficacy: 34.0 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.07 / 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				71
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64				64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52				52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48				48
8	70	58	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44				44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37				37

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

	0°	45°	90°
0°	7690	7690	7690
5°	7427	7551	7675
10°	6919	7193	7558
15°	6300	6730	7357
20°	5639	6177	7025
25°	4918	5513	6640
30°	4135	4835	6248
35°	3290	4098	5880
40°	2345	3342	5495
45°	1397	2684	4922
50°	1030	2044	4262
55°	862	1390	3386
60°	695	1146	2379
65°	558	984	1275
70°	460	855	786
75°	436	826	740
80°	453	906	710
85°	647	1293	903

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4922 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	6.9
10°-20°	156.3	17.8
20°-30°	199.4	22.7
30°-40°	187.6	21.4
40°-50°	134.8	15.4
50°-60°	77.3	8.8
60°-70°	35.3	4.0
70°-80°	17.8	2.0
80°-90°	8.7	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°	415.8	47.4
0°-40°	603.4	68.8
0°-60°	815.4	93.0
0°-90°	877.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	630	642	641	645	651	59
15°	518	536	554	583	605	145
25°	380	397	426	471	512	173
35°	230	246	286	351	410	142
45°	84	102	162	238	296	70
55°	42	43	68	125	165	38
65°	20	28	35	39	46	20
75°	10	19	18	16	16	10
85°	5	10	10	9	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	654.9	654.9	654.9	654.9	654.9
2.5°	646.3	655.9	650.1	650.1	651.1
5°	630.1	642.5	640.6	645.4	651.1
7.5°	607.1	620.5	624.3	635.8	645.4
10°	580.3	595.6	603.3	621.5	633.9
12.5°	550.7	567.9	580.3	603.3	621.5
15°	518.2	536.4	553.6	583.2	605.2
17.5°	484.7	502.9	524.9	559.3	585.1
20°	451.3	469.4	494.3	530.6	562.2
22.5°	414.9	433.1	459.9	501.0	539.2
25°	379.6	396.8	425.5	471.4	512.5
27.5°	342.3	359.5	391.0	440.8	486.7
30°	305.0	322.2	356.6	410.2	460.8
32.5°	267.7	284.0	321.2	380.5	435.0
35°	229.5	245.7	285.9	350.9	410.2
37.5°	190.3	206.5	253.4	324.1	385.3
40°	153.0	171.1	218.0	297.3	358.5
42.5°	116.6	135.8	189.3	268.7	327.9
45°	84.1	102.3	161.6	238.1	296.4
47.5°	64.1	73.6	136.7	207.5	265.8
50°	56.4	57.4	111.9	179.7	233.3
52.5°	48.8	49.7	87.0	153.0	198.9
55°	42.1	43.0	67.9	125.2	165.4
57.5°	35.4	37.3	55.5	99.4	132.9
60°	29.6	33.5	48.8	75.5	101.3
62.5°	23.9	30.6	42.1	55.5	72.7
65°	20.1	27.7	35.4	39.2	45.9
67.5°	16.3	25.8	29.6	27.7	27.7
70°	13.4	22.9	24.9	22.9	22.9
72.5°	11.5	22.0	21.0	19.1	19.1
75°	9.6	19.1	18.2	16.3	16.3
77.5°	8.6	16.3	15.3	14.3	13.4
80°	6.7	13.4	13.4	12.4	10.5
82.5°	5.7	11.5	11.5	10.5	8.6
85°	4.8	9.6	9.6	8.6	6.7
87.5°	3.8	8.6	8.6	7.6	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)