

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: P1058048

Luminaire Tested: S122RDR-S675D835-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S675D835-X4F0-XX-UDD-WVL-S  
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

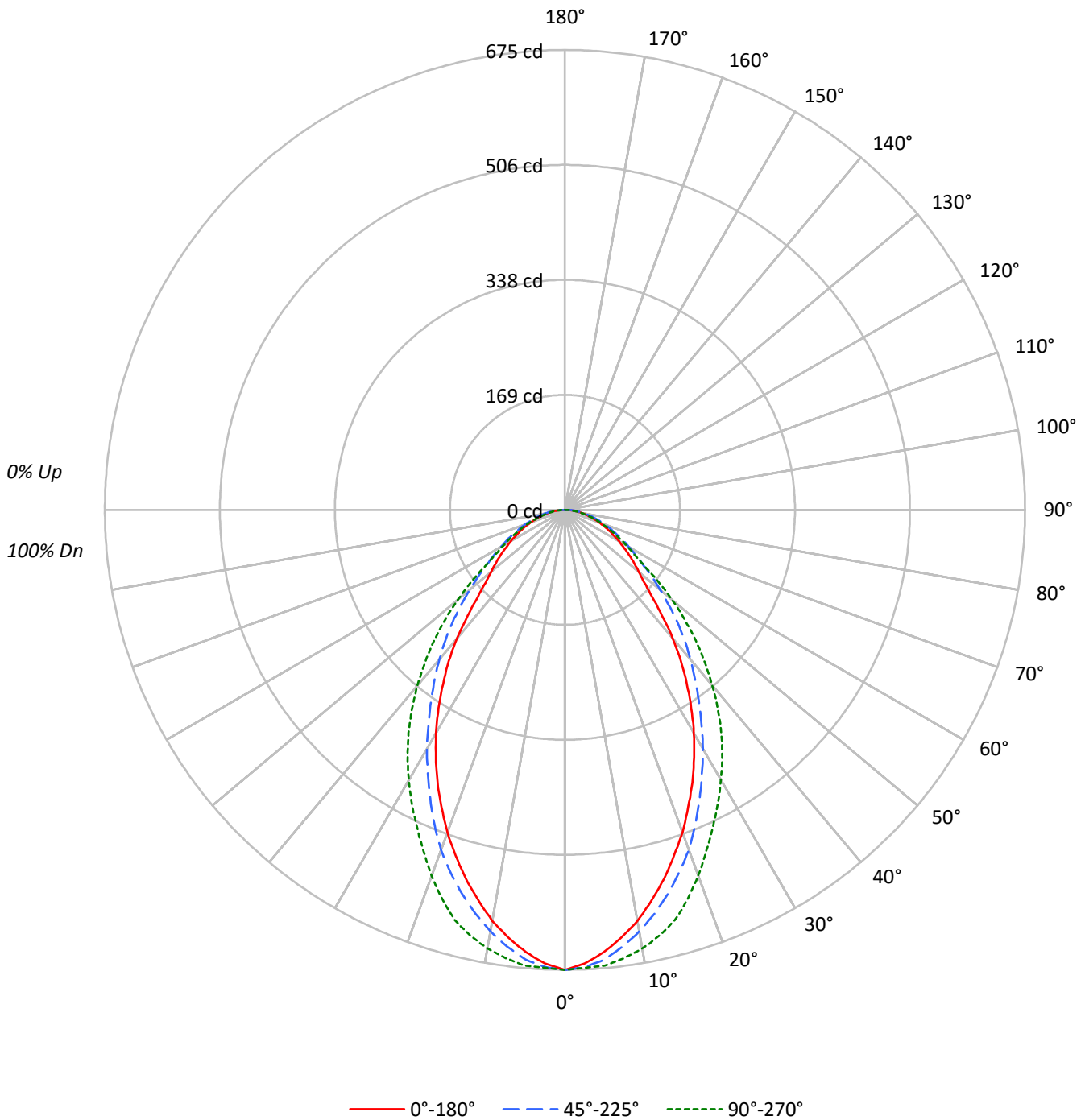
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1099.9 lumens  
Efficiency: N/A  
Efficacy: 42.6 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	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	79	84	80	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59
5	81	70	62	56	79	69	61	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	45	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	39	35	45	39	35	45	39	34	44	38	34	33

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

	0°	45°	90°
0°	12463	12463	12463
5°	12075	12275	12438
10°	11480	11774	12252
15°	10711	11143	11911
20°	9895	10433	11222
25°	9001	9520	10459
30°	8063	8627	9754
35°	7021	7706	9011
40°	5928	6896	8101
45°	4708	6088	7085
50°	4053	5233	5882
55°	3690	4478	4510
60°	3366	3978	3834
65°	3083	3593	3379
70°	2854	3334	3016
75°	2659	3144	2659
80°	2497	3018	2391
85°	2498	3112	2075

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7085 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.3	5.7
10°-20°	164.8	15.0
20°-30°	216.9	19.7
30°-40°	218.1	19.8
40°-50°	176.8	16.1
50°-60°	121.8	11.1
60°-70°	79.7	7.2
70°-80°	44.4	4.0
80°-90°	15.0	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°	444.1	40.4
0°-40°	662.2	60.2
0°-60°	960.7	87.4
0°-90°	1099.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	652	665	663	666	672	61
15°	561	574	583	605	624	157
25°	442	454	468	488	514	203
35°	312	326	342	372	400	194
45°	180	201	233	254	272	143
55°	115	127	139	142	140	103
65°	71	84	82	78	77	70
75°	37	46	44	39	37	40
85°	12	16	15	13	10	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	675.4	675.4	675.4	675.4	675.4
2.5°	666.6	678.4	671.5	671.5	672.5
5°	651.9	664.7	662.7	665.6	671.5
7.5°	633.3	647.0	647.0	655.8	663.7
10°	612.7	626.4	628.4	642.1	653.9
12.5°	587.2	600.9	606.8	624.5	640.2
15°	560.7	574.5	583.3	604.9	623.5
17.5°	532.3	546.0	557.8	580.4	599.0
20°	503.9	516.6	531.3	550.9	571.5
22.5°	472.5	486.2	500.0	518.6	542.1
25°	442.1	453.9	467.6	488.2	513.7
27.5°	409.8	422.5	435.3	459.8	486.2
30°	378.4	391.1	404.9	430.4	457.8
32.5°	345.1	358.8	372.5	401.0	429.4
35°	311.7	326.4	342.1	372.5	400.0
37.5°	279.4	295.1	313.7	345.1	368.6
40°	246.1	262.7	286.3	313.7	336.3
42.5°	210.8	231.4	259.8	283.3	303.9
45°	180.4	201.0	233.3	253.9	271.5
47.5°	157.8	174.5	205.9	223.5	238.2
50°	141.2	153.9	182.3	195.1	204.9
52.5°	127.4	140.2	159.8	168.6	171.6
55°	114.7	127.4	139.2	142.1	140.2
57.5°	102.0	115.7	122.5	119.6	119.6
60°	91.2	105.9	107.8	103.9	103.9
62.5°	80.4	95.1	95.1	90.2	90.2
65°	70.6	84.3	82.3	78.4	77.4
67.5°	61.8	74.5	71.6	67.6	66.7
70°	52.9	64.7	61.8	56.9	55.9
72.5°	45.1	55.9	52.0	48.0	46.1
75°	37.3	46.1	44.1	39.2	37.3
77.5°	30.4	37.3	35.3	31.4	29.4
80°	23.5	29.4	28.4	24.5	22.5
82.5°	17.6	22.5	21.6	18.6	15.7
85°	11.8	15.7	14.7	12.7	9.8
87.5°	5.9	10.8	9.8	8.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)