

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: P1058063

Luminaire Tested: S122RDR-S675D850-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S675D850-X4F0-XX-UDD-SVL-S  
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

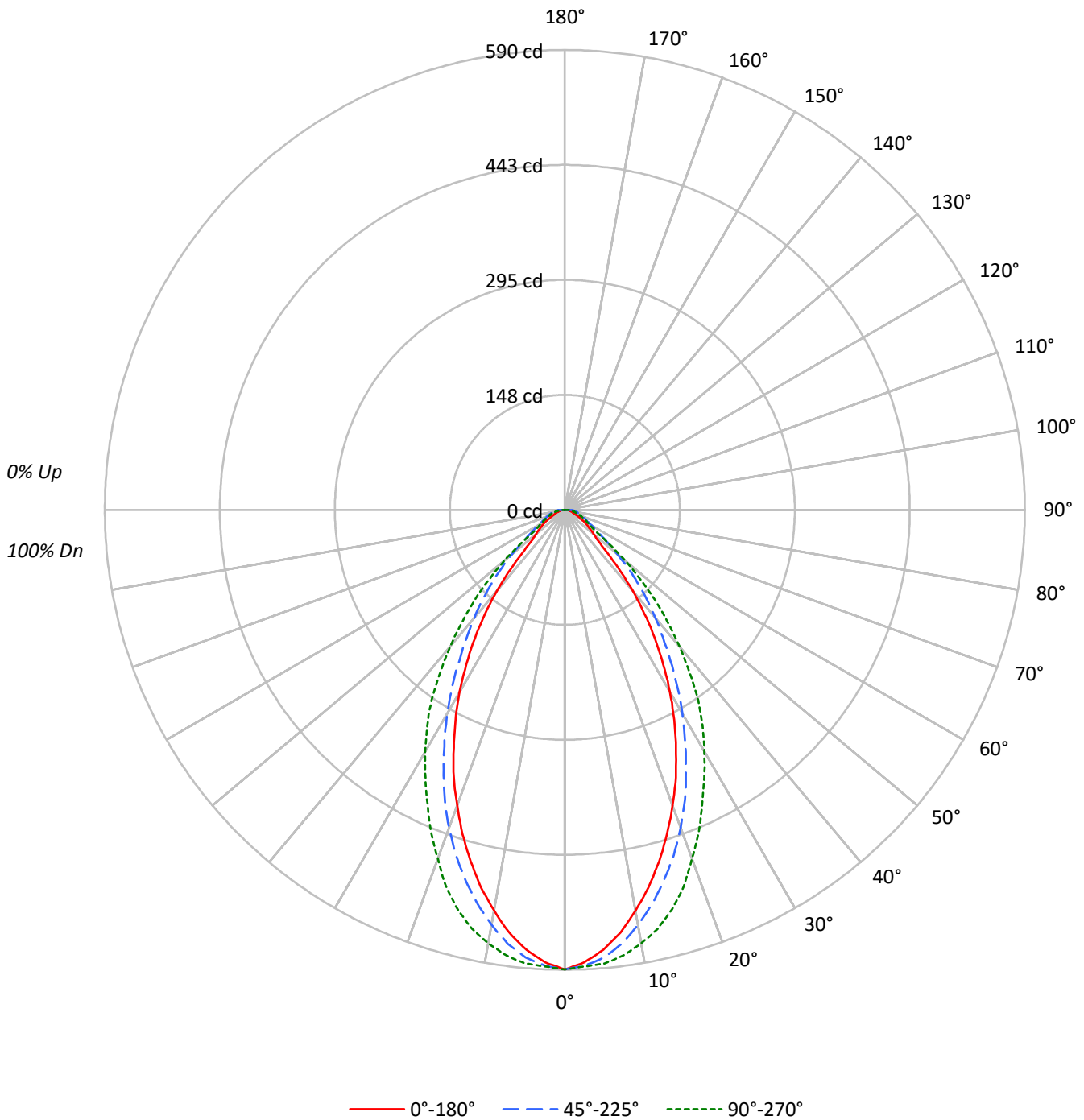
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 711.2 lumens  
Efficiency: N/A  
Efficacy: 27.6 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94  
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	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	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46				46
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42				42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39				39

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

	0°	45°	90°
0°	10880	10880	10880
5°	10497	10678	10819
10°	9783	10129	10579
15°	8916	9393	10140
20°	7925	8522	9355
25°	6865	7486	8482
30°	5749	6420	7626
35°	4532	5316	6713
40°	3249	4350	5502
45°	1902	3434	4259
50°	1375	2498	2874
55°	1155	1785	1506
60°	923	1447	1284
65°	760	1284	1188
70°	647	1230	1117
75°	620	1319	1084
80°	691	1615	1158
85°	1143	2541	1609

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4259 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.0	7.6
10°-20°	138.4	19.5
20°-30°	170.1	23.9
30°-40°	150.4	21.1
40°-50°	96.0	13.5
50°-60°	46.8	6.6
60°-70°	27.9	3.9
70°-80°	17.8	2.5
80°-90°	9.8	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°	362.5	51.0
0°-40°	512.9	72.1
0°-60°	655.7	92.2
0°-90°	711.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	567	579	576	579	584	53
15°	467	480	492	513	531	130
25°	337	349	368	390	417	154
35°	201	212	236	269	298	125
45°	73	94	132	148	163	61
55°	36	48	56	52	47	32
65°	17	33	29	27	27	17
75°	9	20	18	16	15	10
85°	5	11	12	11	8	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	589.6	589.6	589.6	589.6	589.6
2.5°	580.9	591.7	585.2	585.2	586.3
5°	566.7	578.7	576.5	578.7	584.1
7.5°	547.1	559.1	561.3	570.0	576.5
10°	522.1	534.1	540.6	554.8	564.6
12.5°	496.0	508.0	517.8	536.3	550.4
15°	466.7	479.7	491.7	513.4	530.8
17.5°	436.2	449.2	464.5	486.2	506.9
20°	403.6	415.5	434.0	454.7	476.4
22.5°	372.0	382.9	402.5	422.1	448.2
25°	337.2	349.2	367.7	390.5	416.6
27.5°	303.5	315.5	333.9	360.1	387.2
30°	269.8	280.6	301.3	328.5	357.9
32.5°	235.0	245.8	268.7	298.0	328.5
35°	201.2	212.1	236.0	268.7	298.0
37.5°	167.5	179.5	206.7	237.1	262.2
40°	134.9	149.0	180.6	206.7	228.4
42.5°	102.3	121.8	155.6	177.3	194.7
45°	72.9	93.5	131.6	147.9	163.2
47.5°	55.5	71.8	108.8	120.7	130.5
50°	47.9	58.7	87.0	95.7	100.1
52.5°	41.3	52.2	69.6	72.9	70.7
55°	35.9	47.9	55.5	52.2	46.8
57.5°	30.5	44.6	45.7	39.2	40.2
60°	25.0	40.2	39.2	33.7	34.8
62.5°	20.7	37.0	33.7	30.5	30.5
65°	17.4	32.6	29.4	27.2	27.2
67.5°	14.1	29.4	26.1	23.9	23.9
70°	12.0	26.1	22.8	20.7	20.7
72.5°	10.9	22.8	20.7	18.5	18.5
75°	8.7	19.6	18.5	16.3	15.2
77.5°	7.6	16.3	16.3	15.2	13.1
80°	6.5	14.1	15.2	13.1	10.9
82.5°	6.5	13.1	13.1	12.0	8.7
85°	5.4	10.9	12.0	10.9	7.6
87.5°	3.3	9.8	9.8	8.7	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)