

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: P1058066

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058066  
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-S675D850-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: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

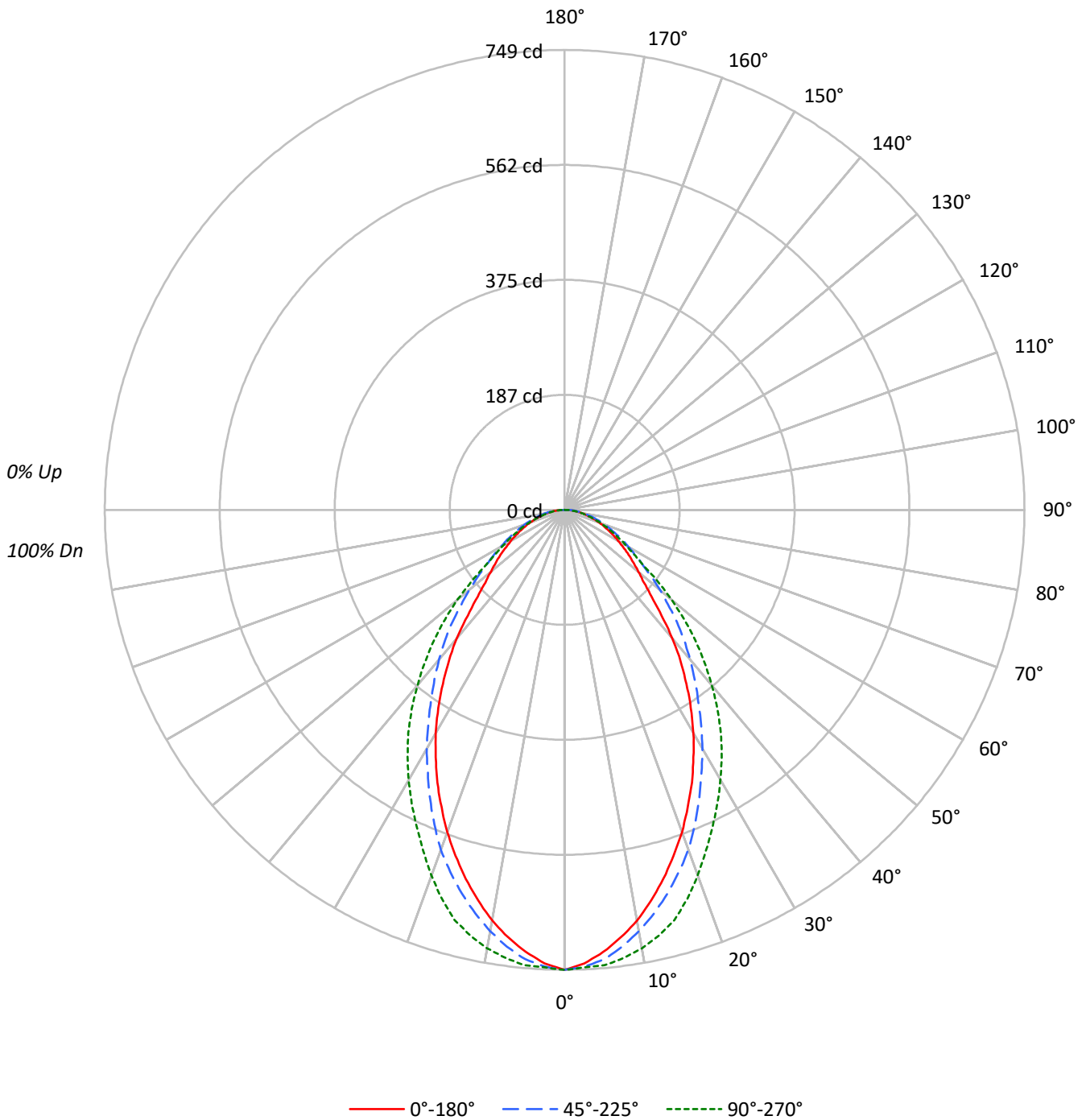
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1219.8 lumens  
Efficiency: N/A  
Efficacy: 47.3 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	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°	13823	13823	13823
5°	13392	13613	13794
10°	12732	13058	13586
15°	11880	12358	13208
20°	10973	11572	12446
25°	9983	10559	11599
30°	8943	9567	10818
35°	7787	8546	9993
40°	6574	7648	8982
45°	5219	6751	7857
50°	4496	5805	6522
55°	4092	4967	5003
60°	3731	4414	4251
65°	3419	3986	3751
70°	3167	3696	3345
75°	2944	3486	2944
80°	2773	3347	2657
85°	2752	3451	2308

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7857 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	5.7
10°-20°	182.8	15.0
20°-30°	240.6	19.7
30°-40°	241.9	19.8
40°-50°	196.0	16.1
50°-60°	135.0	11.1
60°-70°	88.4	7.2
70°-80°	49.2	4.0
80°-90°	16.7	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°	492.5	40.4
0°-40°	734.4	60.2
0°-60°	1065.5	87.4
0°-90°	1219.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1219.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	723	737	735	738	745	68
15°	622	637	647	671	691	174
25°	490	503	519	541	570	225
35°	346	362	379	413	444	216
45°	200	223	259	282	301	158
55°	127	141	154	158	156	114
65°	78	94	91	87	86	78
75°	41	51	49	44	41	44
85°	13	17	16	14	11	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	749.1	749.1	749.1	749.1	749.1
2.5°	739.3	752.3	744.7	744.7	745.8
5°	723.0	737.1	734.9	738.2	744.7
7.5°	702.3	717.5	717.5	727.3	736.0
10°	679.5	694.7	696.9	712.1	725.1
12.5°	651.2	666.4	673.0	692.5	709.9
15°	621.9	637.1	646.9	670.8	691.4
17.5°	590.3	605.6	618.6	643.6	664.3
20°	558.8	572.9	589.3	611.0	633.8
22.5°	524.0	539.2	554.5	575.1	601.2
25°	490.3	503.4	518.6	541.4	569.7
27.5°	454.4	468.6	482.7	509.9	539.2
30°	419.7	433.8	449.0	477.3	507.7
32.5°	382.7	397.9	413.1	444.7	476.2
35°	345.7	362.0	379.4	413.1	443.6
37.5°	309.8	327.2	347.9	382.7	408.8
40°	272.9	291.4	317.5	347.9	372.9
42.5°	233.7	256.6	288.1	314.2	337.0
45°	200.0	222.9	258.7	281.6	301.1
47.5°	175.0	193.5	228.3	247.9	264.2
50°	156.6	170.7	202.2	216.3	227.2
52.5°	141.3	155.5	177.2	187.0	190.3
55°	127.2	141.3	154.4	157.6	155.5
57.5°	113.1	128.3	135.9	132.6	132.6
60°	101.1	117.4	119.6	115.2	115.2
62.5°	89.1	105.5	105.5	100.0	100.0
65°	78.3	93.5	91.3	87.0	85.9
67.5°	68.5	82.6	79.4	75.0	73.9
70°	58.7	71.8	68.5	63.1	62.0
72.5°	50.0	62.0	57.6	53.3	51.1
75°	41.3	51.1	48.9	43.5	41.3
77.5°	33.7	41.3	39.1	34.8	32.6
80°	26.1	32.6	31.5	27.2	25.0
82.5°	19.6	25.0	23.9	20.7	17.4
85°	13.0	17.4	16.3	14.1	10.9
87.5°	6.5	12.0	10.9	9.8	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)