

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: P1058099

Luminaire Tested: S122RDR-S675D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058099
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-S675D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

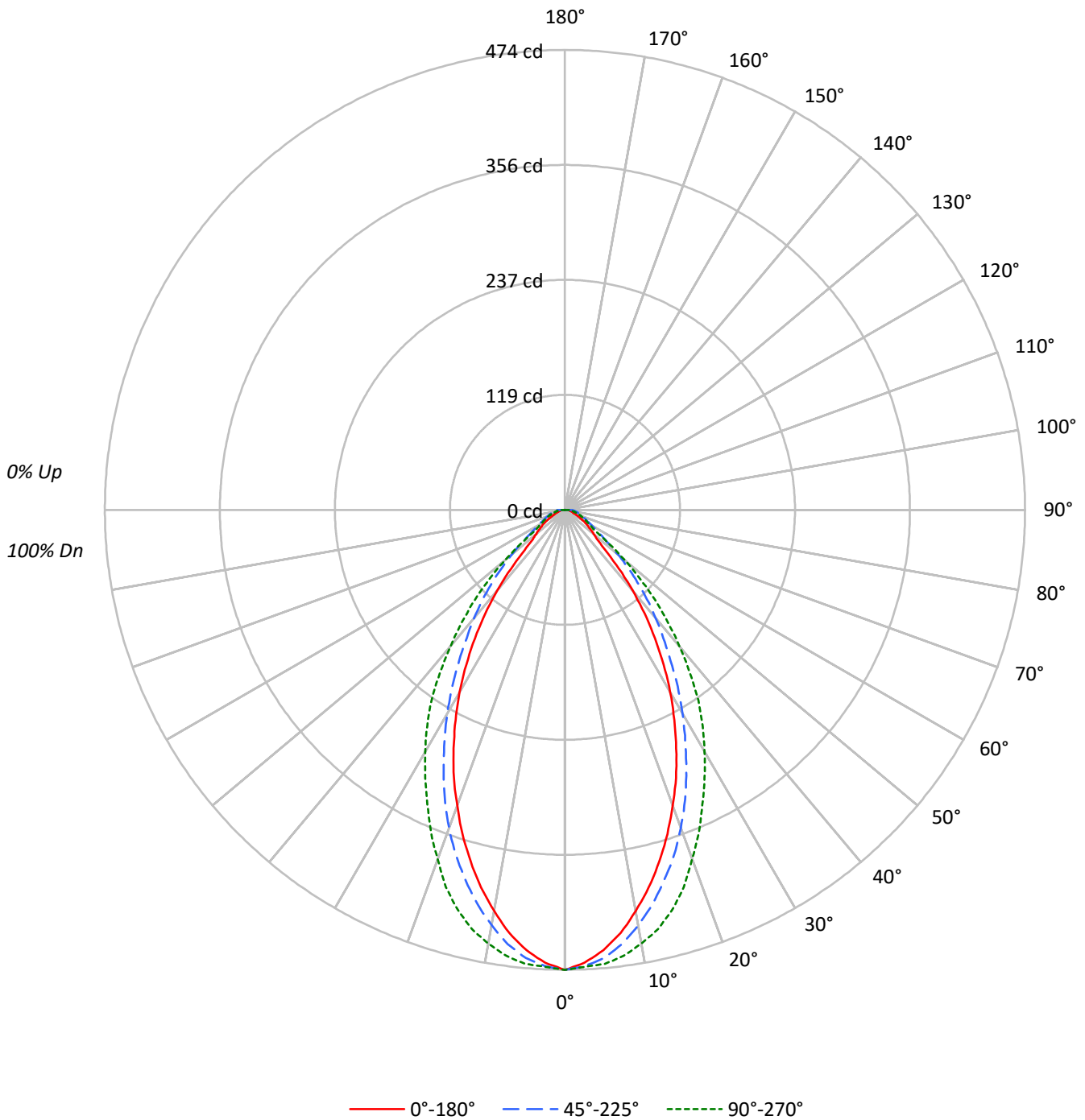
Lumens per Lamp: N/A
Luminaire Lumens: 571.9 lumens
Efficiency: N/A
Efficacy: 22.2 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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
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	101	99	97	98	96	94	94	93	91	89		
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80		
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50		
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46		
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42		
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8748	8748	8748
5°	8441	8587	8700
10°	7866	8145	8505
15°	7168	7552	8153
20°	6372	6853	7523
25°	5520	6018	6821
30°	4622	5163	6132
35°	3645	4275	5400
40°	2614	3498	4425
45°	1529	2761	3424
50°	1105	2009	2311
55°	930	1435	1210
60°	742	1163	1033
65°	611	1030	956
70°	518	993	896
75°	499	1062	870
80°	553	1296	924
85°	932	2032	1291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3424 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	7.6
10°-20°	111.3	19.5
20°-30°	136.8	23.9
30°-40°	120.9	21.1
40°-50°	77.2	13.5
50°-60°	37.7	6.6
60°-70°	22.4	3.9
70°-80°	14.3	2.5
80°-90°	7.9	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°	291.5	51.0
0°-40°	412.4	72.1
0°-60°	527.3	92.2
0°-90°	571.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	571.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	474	474	474	474	474	
5°	456	465	464	465	470	42
15°	375	386	395	413	427	105
25°	271	281	296	314	335	124
35°	162	171	190	216	240	100
45°	59	75	106	119	131	49
55°	29	38	45	42	38	26
65°	14	26	24	22	22	14
75°	7	16	15	13	12	8
85°	4	9	10	9	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	474.1	474.1	474.1	474.1	474.1
2.5°	467.1	475.8	470.6	470.6	471.4
5°	455.7	465.3	463.6	465.3	469.7
7.5°	439.9	449.6	451.3	458.3	463.6
10°	419.8	429.4	434.7	446.1	453.9
12.5°	398.8	408.5	416.3	431.2	442.6
15°	375.2	385.7	395.3	412.8	426.8
17.5°	350.7	361.2	373.5	391.0	407.6
20°	324.5	334.1	349.0	365.6	383.1
22.5°	299.1	307.9	323.6	339.4	360.4
25°	271.1	280.8	295.6	314.0	335.0
27.5°	244.0	253.6	268.5	289.5	311.4
30°	216.9	225.7	242.3	264.1	287.8
32.5°	188.9	197.7	216.0	239.7	264.1
35°	161.8	170.6	189.8	216.0	239.7
37.5°	134.7	144.3	166.2	190.7	210.8
40°	108.5	119.8	145.2	166.2	183.7
42.5°	82.2	98.0	125.1	142.6	156.6
45°	58.6	75.2	105.8	119.0	131.2
47.5°	44.6	57.7	87.5	97.1	105.0
50°	38.5	47.2	70.0	77.0	80.5
52.5°	33.2	42.0	56.0	58.6	56.9
55°	28.9	38.5	44.6	42.0	37.6
57.5°	24.5	35.9	36.7	31.5	32.4
60°	20.1	32.4	31.5	27.1	28.0
62.5°	16.6	29.7	27.1	24.5	24.5
65°	14.0	26.2	23.6	21.9	21.9
67.5°	11.4	23.6	21.0	19.2	19.2
70°	9.6	21.0	18.4	16.6	16.6
72.5°	8.7	18.4	16.6	14.9	14.9
75°	7.0	15.7	14.9	13.1	12.2
77.5°	6.1	13.1	13.1	12.2	10.5
80°	5.2	11.4	12.2	10.5	8.7
82.5°	5.2	10.5	10.5	9.6	7.0
85°	4.4	8.7	9.6	8.7	6.1
87.5°	2.6	7.9	7.9	7.0	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)