

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: P1057793

Luminaire Tested: S122RDR-S1005D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057793
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-S1005D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

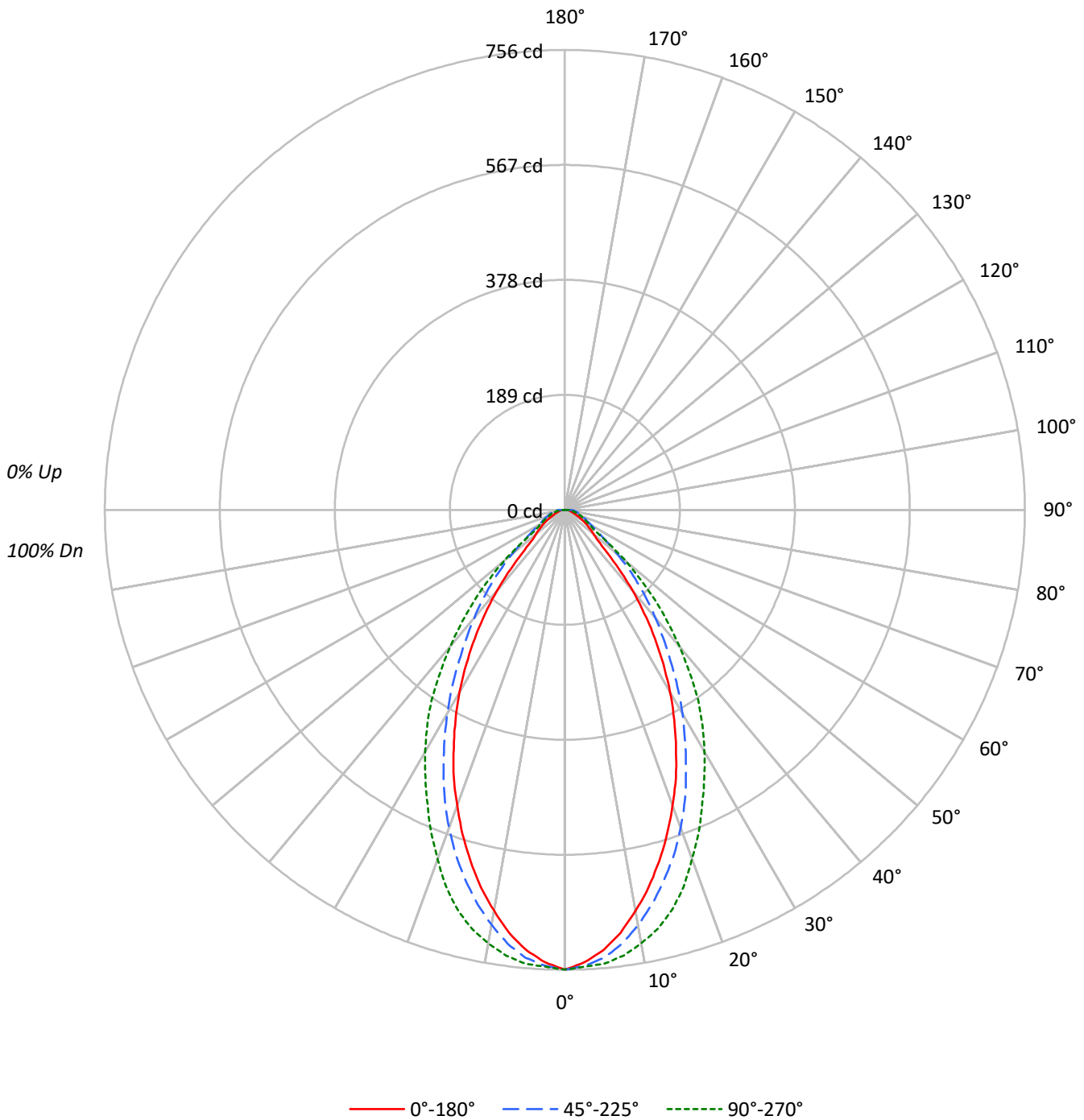
Lumens per Lamp: N/A
Luminaire Lumens: 911.6 lumens
Efficiency: N/A
Efficacy: 21.8 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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°	13945	13945	13945
5°	13455	13688	13868
10°	12541	12985	13558
15°	11426	12039	12998
20°	10158	10924	11992
25°	8800	9596	10872
30°	7368	8229	9774
35°	5810	6816	8605
40°	4165	5576	7053
45°	2437	4402	5457
50°	1760	3201	3683
55°	1480	2287	1930
60°	1185	1853	1646
65°	974	1642	1524
70°	825	1581	1430
75°	799	1690	1390
80°	893	2072	1477
85°	1482	3239	2075

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5457 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	7.6
10°-20°	177.4	19.5
20°-30°	218.0	23.9
30°-40°	192.8	21.1
40°-50°	123.0	13.5
50°-60°	60.0	6.6
60°-70°	35.8	3.9
70°-80°	22.8	2.5
80°-90°	12.6	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°	464.7	51.0
0°-40°	657.4	72.1
0°-60°	840.5	92.2
0°-90°	911.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	911.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	726	742	739	742	749	68
15°	598	615	630	658	680	167
25°	432	448	471	500	534	198
35°	258	272	303	344	382	160
45°	93	120	169	190	209	79
55°	46	61	71	67	60	41
65°	22	42	38	35	35	22
75°	11	25	24	21	20	12
85°	7	14	15	14	10	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	755.7	755.7	755.7	755.7	755.7
2.5°	744.5	758.5	750.1	750.1	751.5
5°	726.4	741.8	739.0	741.8	748.7
7.5°	701.3	716.7	719.4	730.6	739.0
10°	669.3	684.6	693.0	711.1	723.6
12.5°	635.8	651.1	663.7	687.4	705.5
15°	598.1	614.9	630.2	658.1	680.4
17.5°	559.1	575.8	595.4	623.2	649.7
20°	517.3	532.6	556.3	582.8	610.7
22.5°	476.8	490.8	515.9	541.0	574.4
25°	432.2	447.6	471.3	500.5	534.0
27.5°	389.0	404.3	428.0	461.5	496.4
30°	345.8	359.7	386.2	421.1	458.7
32.5°	301.2	315.1	344.4	382.0	421.1
35°	257.9	271.9	302.6	344.4	382.0
37.5°	214.7	230.1	264.9	304.0	336.0
40°	172.9	191.0	231.5	264.9	292.8
42.5°	131.1	156.2	199.4	227.3	249.6
45°	93.4	119.9	168.7	189.6	209.1
47.5°	71.1	92.0	139.4	154.8	167.3
50°	61.3	75.3	111.5	122.7	128.3
52.5°	53.0	66.9	89.2	93.4	90.6
55°	46.0	61.3	71.1	66.9	60.0
57.5°	39.0	57.2	58.6	50.2	51.6
60°	32.1	51.6	50.2	43.2	44.6
62.5°	26.5	47.4	43.2	39.0	39.0
65°	22.3	41.8	37.6	34.9	34.9
67.5°	18.1	37.6	33.5	30.7	30.7
70°	15.3	33.5	29.3	26.5	26.5
72.5°	13.9	29.3	26.5	23.7	23.7
75°	11.2	25.1	23.7	20.9	19.5
77.5°	9.8	20.9	20.9	19.5	16.7
80°	8.4	18.1	19.5	16.7	13.9
82.5°	8.4	16.7	16.7	15.3	11.2
85°	7.0	13.9	15.3	13.9	9.8
87.5°	4.2	12.5	12.5	11.2	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)