

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: P1057802

Luminaire Tested: S122RDR-S1005D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057802
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-S1005D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

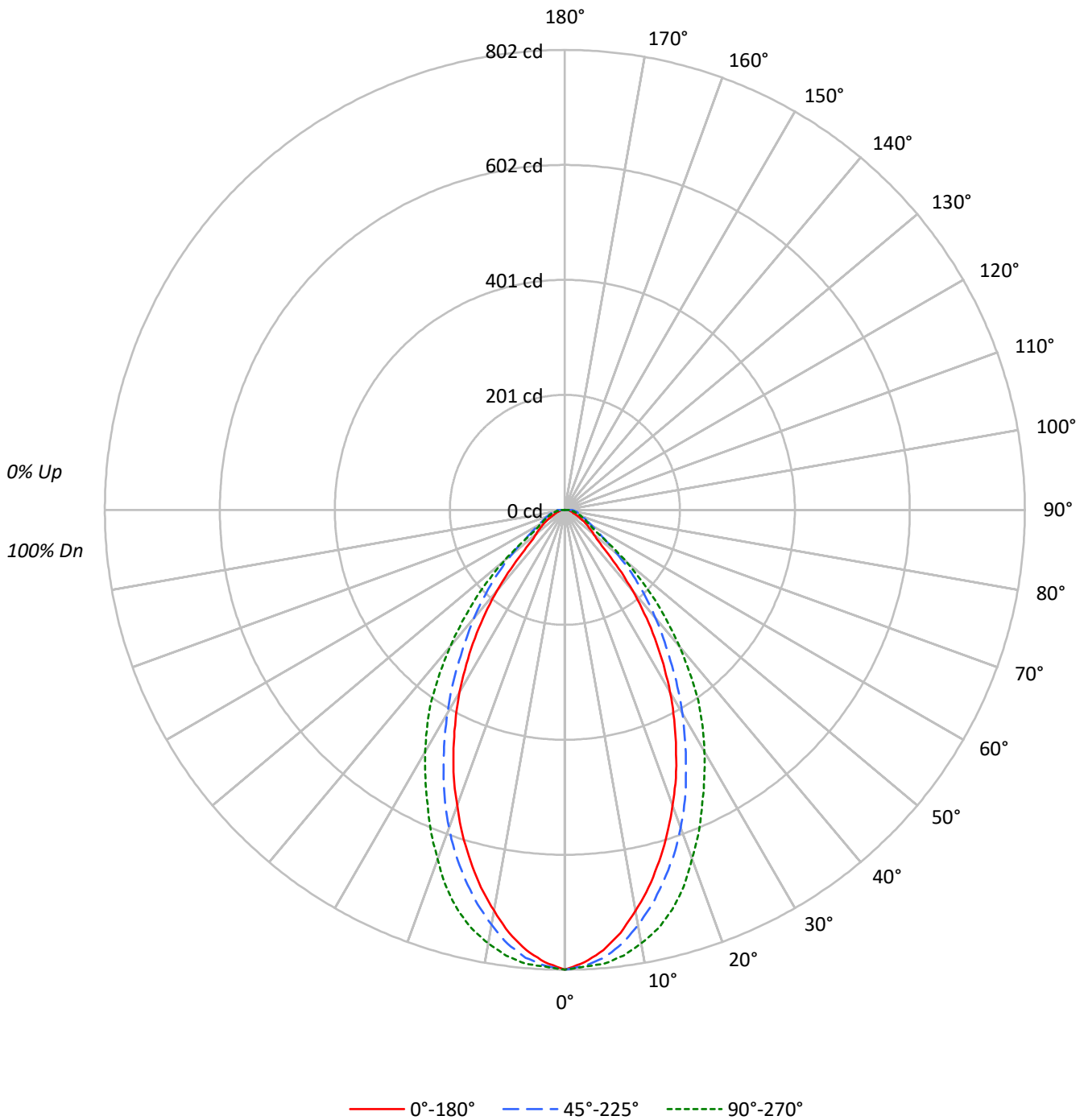
Lumens per Lamp: N/A
Luminaire Lumens: 967.2 lumens
Efficiency: N/A
Efficacy: 23.1 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1057802

CATALOG NUMBER: S122RDR-S1005D835-X4F0-XX-UDD-SVL-S

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°	14795	14795	14795
5°	14276	14522	14715
10°	13305	13776	14384
15°	12123	12773	13791
20°	10777	11590	12723
25°	9337	10180	11536
30°	7818	8732	10370
35°	6165	7231	9130
40°	4418	5916	7482
45°	2586	4671	5791
50°	1869	3396	3907
55°	1570	2426	2046
60°	1255	1967	1746
65°	1035	1742	1616
70°	879	1678	1516
75°	841	1790	1476
80°	946	2200	1573
85°	1567	3451	2202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5791 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	7.6
10°-20°	188.2	19.5
20°-30°	231.3	23.9
30°-40°	204.5	21.1
40°-50°	130.5	13.5
50°-60°	63.7	6.6
60°-70°	37.9	3.9
70°-80°	24.2	2.5
80°-90°	13.4	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°	493.0	51.0
0°-40°	697.5	72.1
0°-60°	891.7	92.2
0°-90°	967.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	967.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	771	787	784	787	794	72
15°	635	652	669	698	722	177
25°	459	475	500	531	567	210
35°	274	288	321	365	405	170
45°	99	127	179	201	222	83
55°	49	65	75	71	64	44
65°	24	44	40	37	37	24
75°	12	27	25	22	21	13
85°	7	15	16	15	10	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	801.8	801.8	801.8	801.8	801.8
2.5°	789.9	804.7	795.9	795.9	797.3
5°	770.7	787.0	784.0	787.0	794.4
7.5°	744.1	760.3	763.3	775.1	784.0
10°	710.1	726.3	735.2	754.4	767.7
12.5°	674.6	690.8	704.1	729.3	748.5
15°	634.6	652.4	668.6	698.2	721.9
17.5°	593.2	610.9	631.7	661.2	689.3
20°	548.8	565.1	590.2	618.3	647.9
22.5°	505.9	520.7	547.3	574.0	609.5
25°	458.6	474.8	500.0	531.1	566.6
27.5°	412.7	429.0	454.1	489.6	526.6
30°	366.9	381.7	409.8	446.7	486.7
32.5°	319.5	334.3	365.4	405.3	446.7
35°	273.7	288.5	321.0	365.4	405.3
37.5°	227.8	244.1	281.1	322.5	356.5
40°	183.4	202.7	245.6	281.1	310.6
42.5°	139.1	165.7	211.5	241.1	264.8
45°	99.1	127.2	179.0	201.2	221.9
47.5°	75.4	97.6	147.9	164.2	177.5
50°	65.1	79.9	118.3	130.2	136.1
52.5°	56.2	71.0	94.7	99.1	96.2
55°	48.8	65.1	75.4	71.0	63.6
57.5°	41.4	60.7	62.1	53.3	54.7
60°	34.0	54.7	53.3	45.9	47.3
62.5°	28.1	50.3	45.9	41.4	41.4
65°	23.7	44.4	39.9	37.0	37.0
67.5°	19.2	39.9	35.5	32.5	32.5
70°	16.3	35.5	31.1	28.1	28.1
72.5°	14.8	31.1	28.1	25.1	25.1
75°	11.8	26.6	25.1	22.2	20.7
77.5°	10.4	22.2	22.2	20.7	17.8
80°	8.9	19.2	20.7	17.8	14.8
82.5°	8.9	17.8	17.8	16.3	11.8
85°	7.4	14.8	16.3	14.8	10.4
87.5°	4.4	13.3	13.3	11.8	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)