

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: P1058171

Luminaire Tested: S122RDR-S865D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058171
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-S865D935-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, 90 CRI LEDS
Ballast/Driver: -

Summary

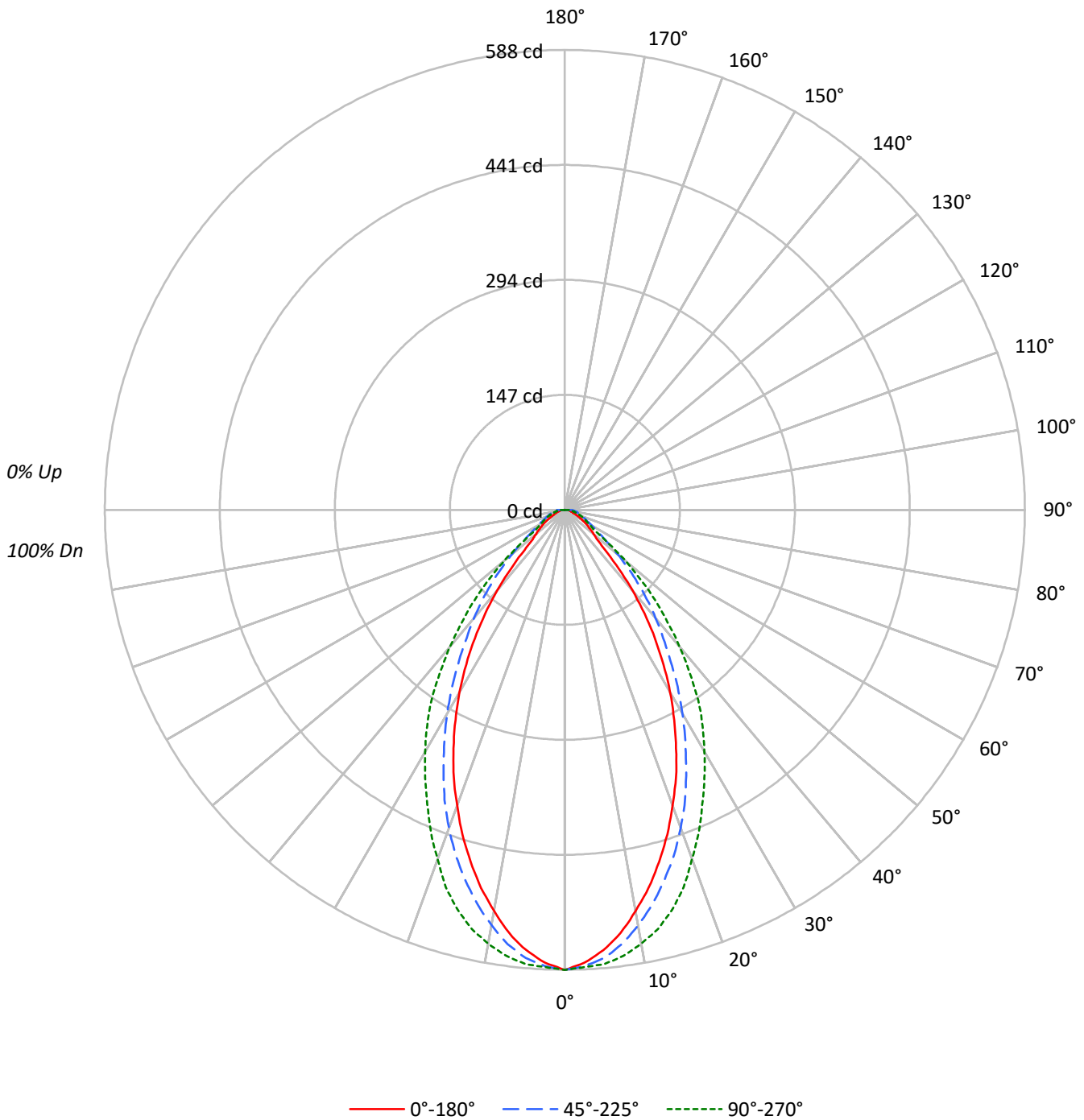
Lumens per Lamp: N/A
Luminaire Lumens: 709.6 lumens
Efficiency: N/A
Efficacy: 20.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	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°	10854	10854	10854
5°	10473	10654	10795
10°	9760	10107	10553
15°	8895	9370	10117
20°	7906	8503	9333
25°	6849	7468	8464
30°	5734	6405	7607
35°	4523	5305	6699
40°	3242	4341	5490
45°	1897	3426	4248
50°	1372	2492	2865
55°	1152	1779	1502
60°	923	1443	1281
65°	760	1279	1183
70°	642	1230	1111
75°	620	1312	1084
80°	691	1615	1158
85°	1143	2519	1609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4248 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	7.6
10°-20°	138.1	19.5
20°-30°	169.7	23.9
30°-40°	150.0	21.1
40°-50°	95.8	13.5
50°-60°	46.7	6.6
60°-70°	27.8	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°	361.7	51.0
0°-40°	511.7	72.1
0°-60°	654.2	92.2
0°-90°	709.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	565	577	575	577	583	53
15°	466	479	490	512	530	130
25°	336	348	367	390	416	154
35°	201	212	236	268	297	125
45°	73	93	131	148	163	61
55°	36	48	55	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°	588.2	588.2	588.2	588.2	588.2
2.5°	579.5	590.4	583.9	583.9	585.0
5°	565.4	577.4	575.2	577.4	582.8
7.5°	545.9	557.8	560.0	568.7	575.2
10°	520.9	532.9	539.4	553.5	563.2
12.5°	494.9	506.8	516.6	535.0	549.1
15°	465.6	478.6	490.5	512.2	529.6
17.5°	435.2	448.2	463.4	485.1	505.7
20°	402.6	414.6	433.0	453.6	475.3
22.5°	371.2	382.0	401.5	421.1	447.1
25°	336.4	348.4	366.8	389.6	415.7
27.5°	302.8	314.7	333.2	359.2	386.4
30°	269.1	280.0	300.6	327.7	357.0
32.5°	234.4	245.3	268.1	297.4	327.7
35°	200.8	211.6	235.5	268.1	297.4
37.5°	167.1	179.1	206.2	236.6	261.5
40°	134.6	148.7	180.2	206.2	227.9
42.5°	102.0	121.5	155.2	176.9	194.3
45°	72.7	93.3	131.3	147.6	162.8
47.5°	55.3	71.6	108.5	120.5	130.2
50°	47.8	58.6	86.8	95.5	99.8
52.5°	41.2	52.1	69.5	72.7	70.5
55°	35.8	47.8	55.3	52.1	46.7
57.5°	30.4	44.5	45.6	39.1	40.2
60°	25.0	40.2	39.1	33.6	34.7
62.5°	20.6	36.9	33.6	30.4	30.4
65°	17.4	32.6	29.3	27.1	27.1
67.5°	14.1	29.3	26.0	23.9	23.9
70°	11.9	26.0	22.8	20.6	20.6
72.5°	10.9	22.8	20.6	18.4	18.4
75°	8.7	19.5	18.4	16.3	15.2
77.5°	7.6	16.3	16.3	15.2	13.0
80°	6.5	14.1	15.2	13.0	10.9
82.5°	6.5	13.0	13.0	11.9	8.7
85°	5.4	10.9	11.9	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)