

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: P1058125

Luminaire Tested: S122RDR-S865D835-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S865D835-X4F0-XX-UDD-SVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

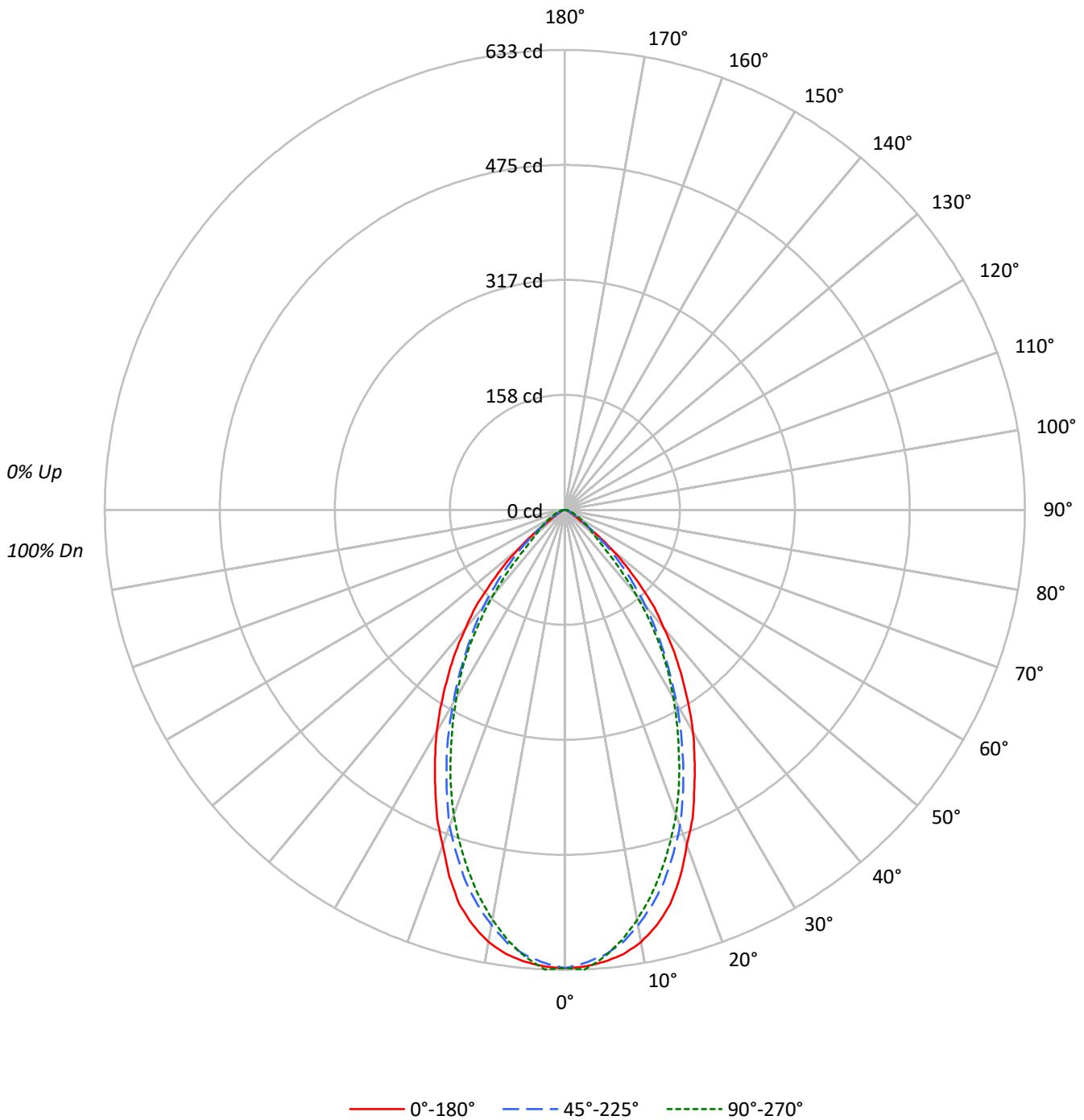
Lumens per Lamp: N/A
Luminaire Lumens: 678.3 lumens
Efficiency: N/A
Efficacy: 19.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76				
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59				
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54				
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50				
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47				
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11638	11638	11638
5°	11566	11401	11449
10°	11321	10873	10731
15°	10725	10100	9812
20°	9640	9096	8776
25°	8586	7843	7560
30°	7511	6543	6356
35°	6323	5303	5131
40°	5095	4184	3700
45°	3810	3022	2200
50°	2386	1952	1447
55°	811	1052	1174
60°	465	650	930
65°	332	441	716
70°	270	340	545
75°	178	271	449
80°	138	266	404
85°	0	0	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3810 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	8.6
10°-20°	148.8	21.9
20°-30°	179.2	26.4
30°-40°	153.1	22.6
40°-50°	89.7	13.2
50°-60°	32.5	4.8
60°-70°	11.5	1.7
70°-80°	4.6	0.7
80°-90°	0.8	0.1
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°	386.1	56.9
0°-40°	539.2	79.5
0°-60°	661.3	97.5
0°-90°	678.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	678.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	631	631	631	631	631	
5°	624	626	616	618	618	59
15°	561	553	529	519	514	156
25°	422	404	385	379	371	194
35°	281	259	235	233	228	175
45°	146	131	116	97	84	113
55°	25	35	33	34	36	31
65°	8	9	10	14	16	8
75°	2	4	4	5	6	3
85°	0	0	0	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	630.7	630.7	630.7	630.7	630.7
2.5°	629.4	630.7	624.4	630.7	633.2
5°	624.4	625.6	615.5	618.1	618.1
7.5°	616.8	615.5	601.7	599.2	597.9
10°	604.2	600.4	580.3	576.5	572.7
12.5°	585.3	577.8	556.4	550.1	545.1
15°	561.4	552.6	528.7	518.6	513.6
17.5°	528.7	518.6	496.0	485.9	480.9
20°	490.9	480.9	463.2	451.9	446.9
22.5°	459.5	443.1	424.2	416.7	410.4
25°	421.7	404.1	385.2	378.9	371.3
27.5°	386.4	365.0	346.2	341.1	334.8
30°	352.5	329.8	307.1	307.1	298.3
32.5°	316.0	294.6	270.6	269.4	264.3
35°	280.7	259.3	235.4	232.9	227.8
37.5°	248.0	226.6	203.9	196.4	190.1
40°	211.5	192.6	173.7	161.1	153.6
42.5°	182.5	161.1	142.2	127.1	117.1
45°	146.0	130.9	115.8	96.9	84.3
47.5°	113.3	103.2	90.6	69.2	62.9
50°	83.1	78.0	68.0	51.6	50.4
52.5°	52.9	55.4	49.1	40.3	44.1
55°	25.2	35.2	32.7	34.0	36.5
57.5°	16.4	17.6	23.9	27.7	30.2
60°	12.6	12.6	17.6	22.7	25.2
62.5°	10.1	10.1	13.8	18.9	20.1
65°	7.6	8.8	10.1	13.8	16.4
67.5°	6.3	6.3	7.6	11.3	12.6
70°	5.0	5.0	6.3	8.8	10.1
72.5°	3.8	3.8	5.0	7.6	7.6
75°	2.5	3.8	3.8	5.0	6.3
77.5°	2.5	2.5	2.5	3.8	5.0
80°	1.3	1.3	2.5	2.5	3.8
82.5°	1.3	1.3	1.3	1.3	2.5
85°	0.0	0.0	0.0	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)