

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: P1058155

Luminaire Tested: S122RDR-S865D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-19)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S865D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

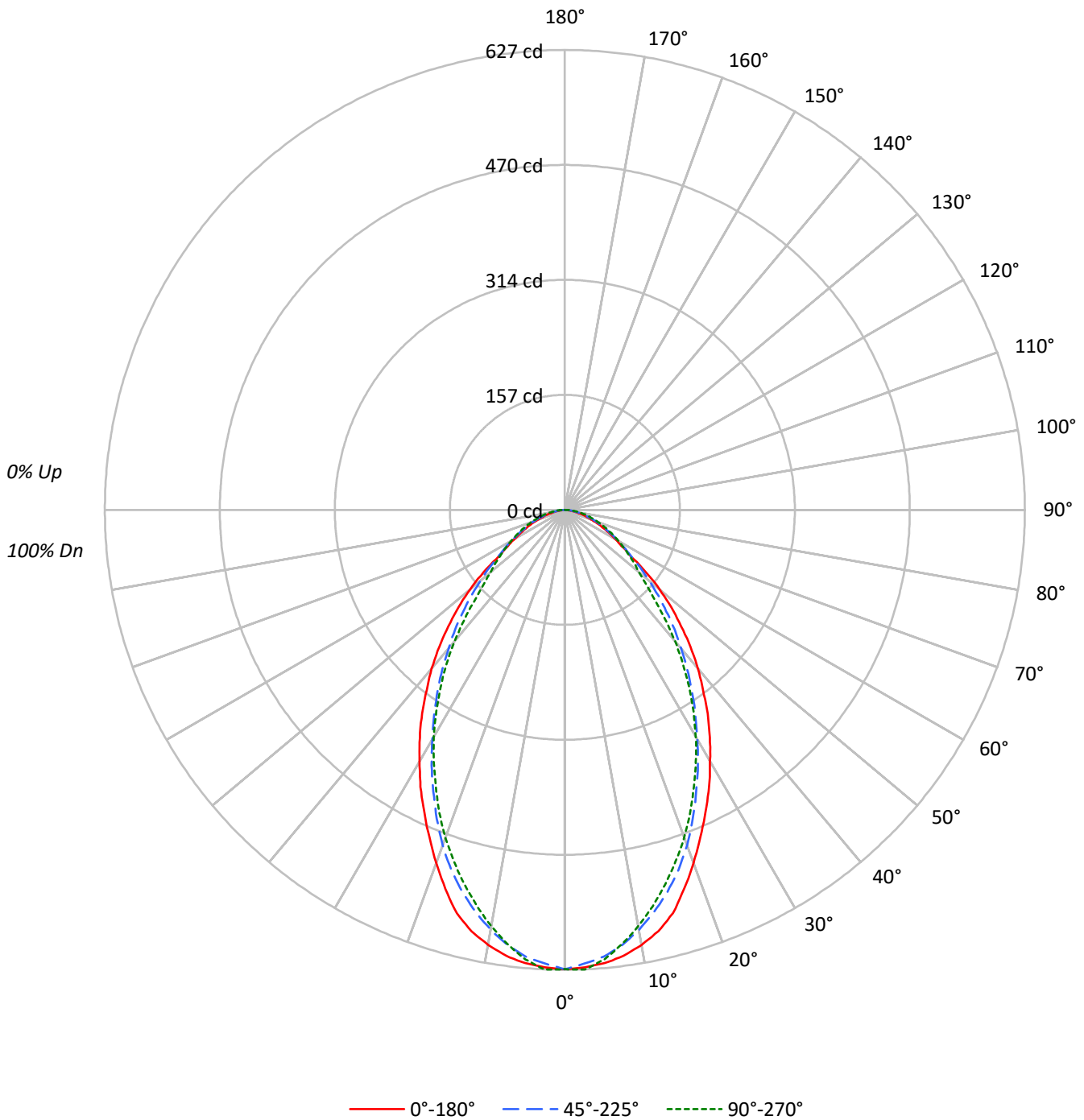
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 951.1 lumens
Efficiency: N/A
Efficacy: 27.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02
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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68				68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44				44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41				41
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11557	11557	11557
5°	11490	11323	11397
10°	11285	10894	10800
15°	10877	10306	10096
20°	10066	9557	9341
25°	9239	8629	8468
30°	8435	7692	7607
35°	7639	6807	6650
40°	6798	5933	5622
45°	5856	5102	4502
50°	4837	4295	3778
55°	3497	3561	3400
60°	2908	3056	3093
65°	2480	2655	2829
70°	2045	2368	2584
75°	1704	1989	2346
80°	1275	1594	2115
85°	423	847	1905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	6.1
10°-20°	152.5	16.0
20°-30°	197.3	20.7
30°-40°	193.5	20.3
40°-50°	152.4	16.0
50°-60°	99.9	10.5
60°-70°	60.8	6.4
70°-80°	30.4	3.2
80°-90°	6.6	0.7
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°	407.6	42.9
0°-40°	601.2	63.2
0°-60°	853.4	89.7
0°-90°	951.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	951.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	620	620	611	615	615	59
15°	569	562	540	532	528	159
25°	454	439	424	422	416	209
35°	339	320	302	301	295	211
45°	224	210	196	182	172	173
55°	109	115	111	107	106	103
65°	57	58	61	64	65	57
75°	24	25	28	32	33	25
85°	2	3	4	7	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.3	626.3	626.3	626.3	626.3
2.5°	624.3	625.3	619.3	625.3	627.3
5°	620.3	620.3	611.3	615.3	615.3
7.5°	613.3	612.3	598.4	598.4	597.4
10°	602.3	598.4	581.4	578.4	576.4
12.5°	588.4	581.4	561.5	556.5	553.5
15°	569.4	561.5	539.5	532.5	528.5
17.5°	541.5	533.5	514.6	506.6	502.6
20°	512.6	500.6	486.7	479.7	475.7
22.5°	482.7	468.7	455.7	450.8	446.8
25°	453.8	438.8	423.8	421.8	415.9
27.5°	425.8	407.9	392.9	391.9	386.9
30°	395.9	377.0	361.0	362.0	357.0
32.5°	368.0	350.0	331.1	332.1	326.1
35°	339.1	320.1	302.2	301.2	295.2
37.5°	309.2	291.2	274.2	270.3	264.3
40°	282.2	264.3	246.3	239.3	233.4
42.5°	253.3	237.3	221.4	210.4	202.4
45°	224.4	210.4	195.5	181.5	172.5
47.5°	196.5	185.5	172.5	155.6	149.6
50°	168.5	160.6	149.6	134.6	131.6
52.5°	139.6	136.6	129.6	119.7	118.7
55°	108.7	114.7	110.7	106.7	105.7
57.5°	91.7	92.7	95.7	94.7	94.7
60°	78.8	78.8	82.8	83.8	83.8
62.5°	66.8	67.8	71.8	73.8	73.8
65°	56.8	57.8	60.8	63.8	64.8
67.5°	46.9	48.9	51.9	54.8	55.8
70°	37.9	39.9	43.9	46.9	47.9
72.5°	30.9	31.9	35.9	38.9	39.9
75°	23.9	24.9	27.9	31.9	32.9
77.5°	17.0	18.9	21.9	24.9	26.9
80°	12.0	13.0	15.0	18.9	19.9
82.5°	7.0	8.0	10.0	13.0	14.0
85°	2.0	3.0	4.0	7.0	9.0
87.5°	0.0	0.0	0.0	2.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)