

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: P1058163

Luminaire Tested: S122RDR-S865D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S865D930-X4F0-XX-UDD-SVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

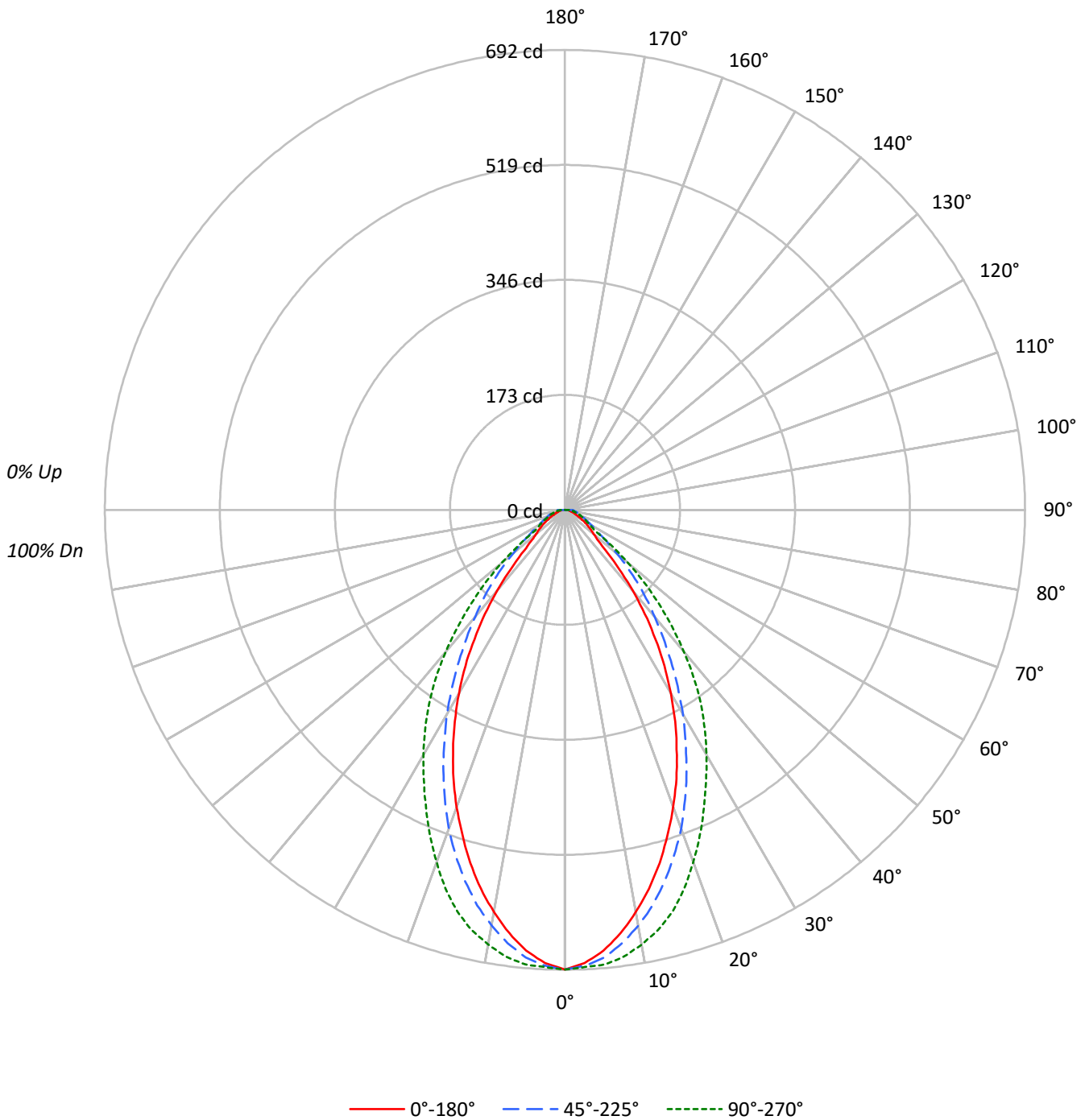
Lumens per Lamp: N/A
Luminaire Lumens: 839.0 lumens
Efficiency: N/A
Efficacy: 24.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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
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	102	99	97	98	96	94	94	93	91	89		
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80		
3	97	89	83	78	95	88	82	77	85	80	76	83	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	67	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	45	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°	12764	12764	12764
5°	12336	12527	12718
10°	11516	11902	12441
15°	10505	11055	11957
20°	9345	10030	11081
25°	8099	8810	10066
30°	6788	7555	9066
35°	5348	6251	8033
40°	3813	5051	6709
45°	2252	3995	5203
50°	1622	2891	3540
55°	1354	2085	1785
60°	1100	1668	1517
65°	899	1480	1393
70°	777	1441	1333
75°	734	1469	1319
80°	765	1743	1424
85°	1080	2837	1736

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5203 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	7.6
10°-20°	163.0	19.4
20°-30°	201.1	24.0
30°-40°	178.8	21.3
40°-50°	114.2	13.6
50°-60°	54.8	6.5
60°-70°	32.2	3.8
70°-80°	20.5	2.4
80°-90°	11.0	1.3
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°	427.5	51.0
0°-40°	606.3	72.3
0°-60°	775.3	92.4
0°-90°	839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	666	678	676	680	687	62
15°	550	563	579	605	626	153
25°	398	413	433	464	494	182
35°	237	256	278	320	357	147
45°	86	112	153	178	199	72
55°	42	54	65	63	56	38
65°	21	37	34	31	32	21
75°	10	23	21	20	18	11
85°	5	12	13	11	8	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.7	691.7	691.7	691.7	691.7
2.5°	682.5	693.8	686.6	686.6	688.6
5°	666.0	678.3	676.3	680.4	686.6
7.5°	642.4	655.7	657.8	669.1	678.3
10°	614.6	629.0	635.2	651.6	664.0
12.5°	583.8	598.2	609.5	630.0	647.5
15°	549.9	563.2	578.7	605.4	625.9
17.5°	512.9	530.3	545.8	573.5	597.2
20°	475.9	492.3	510.8	537.5	564.3
22.5°	437.8	453.3	471.8	499.5	530.3
25°	397.8	413.2	432.7	463.5	494.4
27.5°	358.7	374.1	392.6	426.5	459.4
30°	318.6	334.0	354.6	389.5	425.5
32.5°	278.5	295.0	315.5	353.6	391.6
35°	237.4	255.9	277.5	319.6	356.6
37.5°	197.3	215.8	242.6	283.7	318.6
40°	158.3	179.9	209.7	246.7	278.5
42.5°	120.3	143.9	180.9	210.7	238.4
45°	86.3	112.0	153.1	177.8	199.4
47.5°	65.8	84.3	126.4	145.9	161.4
50°	56.5	67.8	100.7	115.1	123.3
52.5°	49.3	59.6	80.2	87.4	87.4
55°	42.1	54.5	64.8	62.7	55.5
57.5°	36.0	49.3	53.4	45.2	47.3
60°	29.8	45.2	45.2	40.1	41.1
62.5°	24.7	42.1	39.1	34.9	36.0
65°	20.6	37.0	33.9	30.8	31.9
67.5°	16.4	32.9	29.8	27.8	27.8
70°	14.4	29.8	26.7	24.7	24.7
72.5°	12.3	25.7	23.6	21.6	21.6
75°	10.3	22.6	20.6	19.5	18.5
77.5°	9.3	19.5	18.5	16.4	15.4
80°	7.2	16.4	16.4	15.4	13.4
82.5°	6.2	14.4	14.4	13.4	11.3
85°	5.1	12.3	13.4	11.3	8.2
87.5°	4.1	11.3	11.3	9.3	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)