

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: P1058154

Luminaire Tested: S122RDR-S865D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058154
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-S865D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

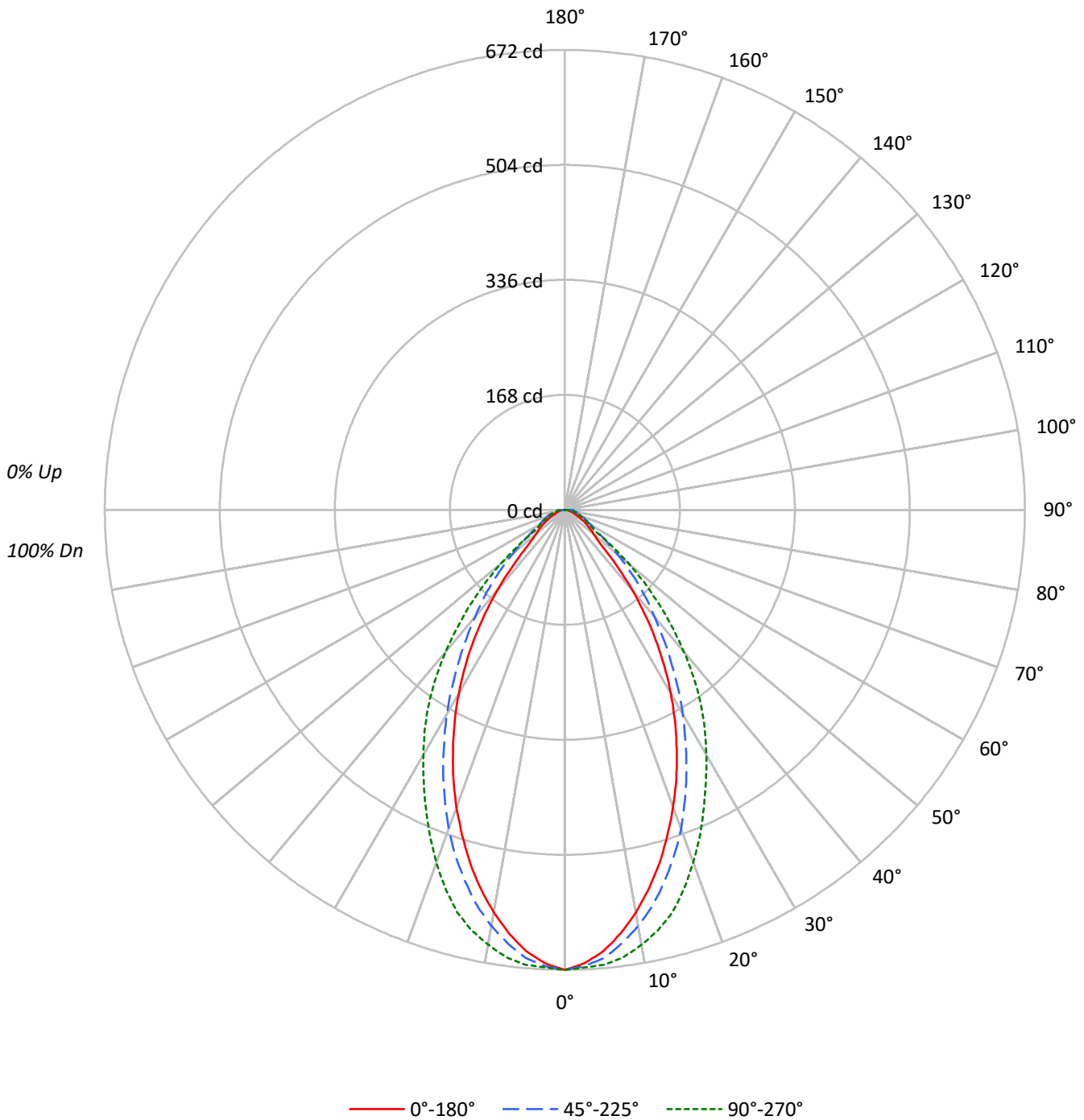
Lumens per Lamp: N/A
Luminaire Lumens: 815.3 lumens
Efficiency: N/A
Efficacy: 23.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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	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°	12402	12402	12402
5°	11986	12171	12357
10°	11190	11565	12087
15°	10207	10740	11619
20°	9080	9746	10767
25°	7869	8559	9781
30°	6597	7340	8808
35°	5197	6073	7805
40°	3705	4907	6518
45°	2189	3883	5055
50°	1576	2810	3439
55°	1316	2024	1734
60°	1070	1620	1473
65°	873	1441	1354
70°	755	1403	1295
75°	713	1426	1283
80°	744	1700	1381
85°	1059	2752	1694

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5055 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	7.6
10°-20°	158.4	19.4
20°-30°	195.4	24.0
30°-40°	173.8	21.3
40°-50°	110.9	13.6
50°-60°	53.2	6.5
60°-70°	31.3	3.8
70°-80°	20.0	2.5
80°-90°	10.7	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°	415.4	51.0
0°-40°	589.2	72.3
0°-60°	753.3	92.4
0°-90°	815.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	647	659	657	661	667	60
15°	534	547	562	588	608	149
25°	386	402	420	450	480	177
35°	231	249	270	311	346	143
45°	84	109	149	173	194	70
55°	41	53	63	61	54	37
65°	20	36	33	30	31	20
75°	10	22	20	19	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°	672.1	672.1	672.1	672.1	672.1
2.5°	663.1	674.1	667.1	667.1	669.1
5°	647.1	659.1	657.1	661.1	667.1
7.5°	624.2	637.1	639.1	650.1	659.1
10°	597.2	611.2	617.2	633.1	645.1
12.5°	567.2	581.2	592.2	612.2	629.2
15°	534.3	547.3	562.2	588.2	608.2
17.5°	498.3	515.3	530.3	557.3	580.2
20°	462.4	478.4	496.3	522.3	548.3
22.5°	425.4	440.4	458.4	485.3	515.3
25°	386.5	401.5	420.4	450.4	480.4
27.5°	348.5	363.5	381.5	414.4	446.4
30°	309.6	324.6	344.5	378.5	413.4
32.5°	270.6	286.6	306.6	343.5	380.5
35°	230.7	248.7	269.6	310.6	346.5
37.5°	191.7	209.7	235.7	275.6	309.6
40°	153.8	174.8	203.7	239.7	270.6
42.5°	116.8	139.8	175.8	204.7	231.7
45°	83.9	108.9	148.8	172.8	193.7
47.5°	63.9	81.9	122.8	141.8	156.8
50°	54.9	65.9	97.9	111.8	119.8
52.5°	47.9	57.9	77.9	84.9	84.9
55°	40.9	52.9	62.9	60.9	53.9
57.5°	35.0	47.9	51.9	43.9	45.9
60°	29.0	43.9	43.9	38.9	39.9
62.5°	24.0	40.9	37.9	34.0	35.0
65°	20.0	36.0	33.0	30.0	31.0
67.5°	16.0	32.0	29.0	27.0	27.0
70°	14.0	29.0	26.0	24.0	24.0
72.5°	12.0	25.0	23.0	21.0	21.0
75°	10.0	22.0	20.0	19.0	18.0
77.5°	9.0	19.0	18.0	16.0	15.0
80°	7.0	16.0	16.0	15.0	13.0
82.5°	6.0	14.0	14.0	13.0	11.0
85°	5.0	12.0	13.0	11.0	8.0
87.5°	4.0	11.0	11.0	9.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)