

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: P1058152

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058152
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-S865D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

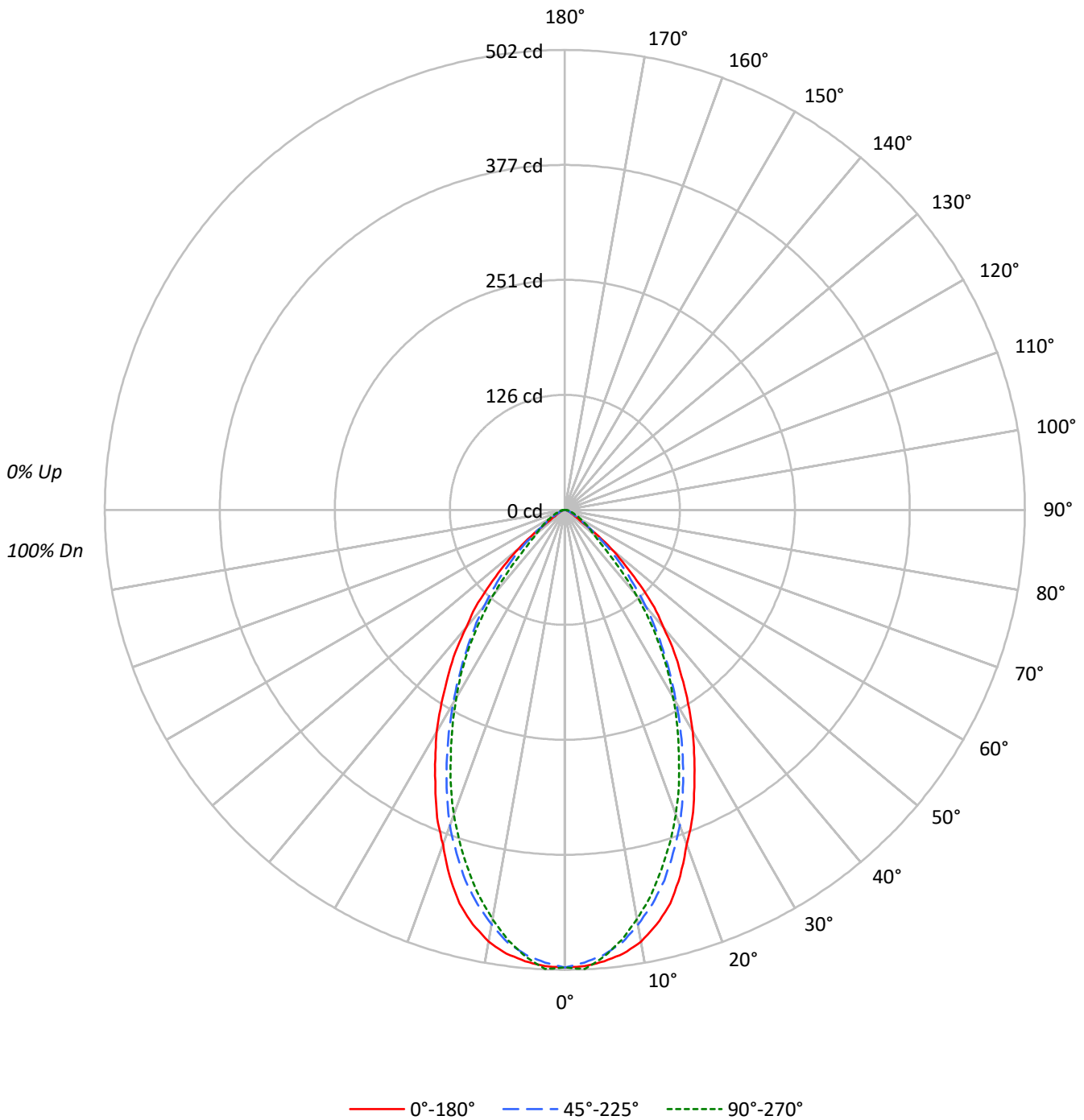
Lumens per Lamp: N/A
Luminaire Lumens: 537.3 lumens
Efficiency: N/A
Efficacy: 15.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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°	9219	9219	9219
5°	9161	9032	9069
10°	8968	8613	8501
15°	8495	8001	7773
20°	7637	7207	6951
25°	6802	6212	5990
30°	5949	5184	5035
35°	5010	4201	4066
40°	4035	3315	2932
45°	3019	2393	1743
50°	1889	1544	1145
55°	640	833	930
60°	369	517	734
65°	262	349	568
70°	216	270	432
75°	143	214	356
80°	106	213	319
85°	0	0	212

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3019 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	8.6
10°-20°	117.9	21.9
20°-30°	141.9	26.4
30°-40°	121.3	22.6
40°-50°	71.0	13.2
50°-60°	25.7	4.8
60°-70°	9.2	1.7
70°-80°	3.7	0.7
80°-90°	0.6	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°	305.9	56.9
0°-40°	427.1	79.5
0°-60°	523.9	97.5
0°-90°	537.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	537.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	495	496	488	490	490	47
15°	445	438	419	411	407	123
25°	334	320	305	300	294	153
35°	222	205	186	184	180	139
45°	116	104	92	77	67	89
55°	20	28	26	27	29	25
65°	6	7	8	11	13	6
75°	2	3	3	4	5	3
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	499.6	499.6	499.6	499.6	499.6
2.5°	498.6	499.6	494.6	499.6	501.6
5°	494.6	495.6	487.6	489.6	489.6
7.5°	488.6	487.6	476.7	474.7	473.7
10°	478.6	475.7	459.7	456.7	453.7
12.5°	463.7	457.7	440.8	435.8	431.8
15°	444.7	437.8	418.8	410.8	406.9
17.5°	418.8	410.8	392.9	384.9	380.9
20°	388.9	380.9	367.0	358.0	354.0
22.5°	364.0	351.0	336.1	330.1	325.1
25°	334.1	320.1	305.1	300.2	294.2
27.5°	306.1	289.2	274.2	270.2	265.3
30°	279.2	261.3	243.3	243.3	236.3
32.5°	250.3	233.3	214.4	213.4	209.4
35°	222.4	205.4	186.5	184.5	180.5
37.5°	196.4	179.5	161.5	155.6	150.6
40°	167.5	152.6	137.6	127.6	121.7
42.5°	144.6	127.6	112.7	100.7	92.7
45°	115.7	103.7	91.7	76.8	66.8
47.5°	89.7	81.8	71.8	54.8	49.9
50°	65.8	61.8	53.8	40.9	39.9
52.5°	41.9	43.9	38.9	31.9	34.9
55°	19.9	27.9	25.9	26.9	28.9
57.5°	13.0	14.0	18.9	21.9	23.9
60°	10.0	10.0	14.0	17.9	19.9
62.5°	8.0	8.0	11.0	15.0	16.0
65°	6.0	7.0	8.0	11.0	13.0
67.5°	5.0	5.0	6.0	9.0	10.0
70°	4.0	4.0	5.0	7.0	8.0
72.5°	3.0	3.0	4.0	6.0	6.0
75°	2.0	3.0	3.0	4.0	5.0
77.5°	2.0	2.0	2.0	3.0	4.0
80°	1.0	1.0	2.0	2.0	3.0
82.5°	1.0	1.0	1.0	1.0	2.0
85°	0.0	0.0	0.0	1.0	1.0
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)