

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: P1057954

Luminaire Tested: S122RDR-S485D830-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057954
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-S485D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

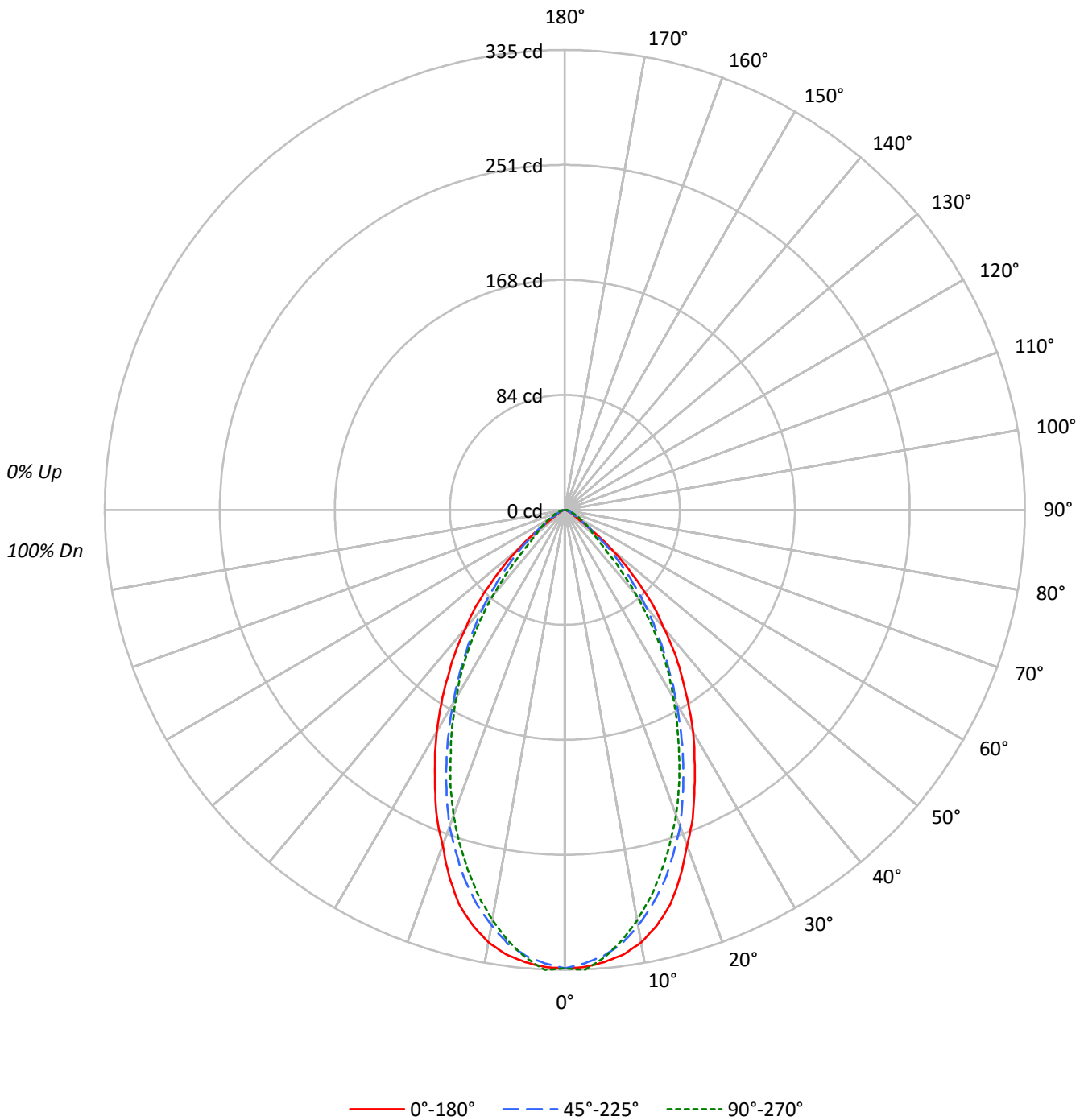
Lumens per Lamp: N/A
Luminaire Lumens: 359.2 lumens
Efficiency: N/A
Efficacy: 18.3 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	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°	6163	6163	6163
5°	6126	6038	6064
10°	5996	5760	5685
15°	5681	5349	5196
20°	5106	4819	4648
25°	4548	4153	4005
30°	3978	3467	3367
35°	3350	2809	2719
40°	2698	2216	1958
45°	2017	1600	1166
50°	1263	1033	766
55°	428	557	621
60°	247	343	491
65°	175	231	380
70°	146	178	286
75°	93	143	235
80°	74	138	213
85°	0	0	148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2017 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	8.6
10°-20°	78.8	21.9
20°-30°	94.9	26.4
30°-40°	81.1	22.6
40°-50°	47.5	13.2
50°-60°	17.2	4.8
60°-70°	6.1	1.7
70°-80°	2.4	0.7
80°-90°	0.4	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°	204.5	56.9
0°-40°	285.6	79.5
0°-60°	350.3	97.5
0°-90°	359.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	359.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	334	334	334	334	334	
5°	331	331	326	327	327	31
15°	297	293	280	275	272	83
25°	223	214	204	201	197	103
35°	149	137	125	123	121	93
45°	77	69	61	51	45	60
55°	13	19	17	18	19	17
65°	4	5	5	7	9	4
75°	1	2	2	3	3	2
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°	334.0	334.0	334.0	334.0	334.0
2.5°	333.4	334.0	330.7	334.0	335.4
5°	330.7	331.4	326.0	327.4	327.4
7.5°	326.7	326.0	318.7	317.4	316.7
10°	320.0	318.0	307.4	305.4	303.4
12.5°	310.0	306.0	294.7	291.4	288.7
15°	297.4	292.7	280.0	274.7	272.0
17.5°	280.0	274.7	262.7	257.4	254.7
20°	260.0	254.7	245.4	239.4	236.7
22.5°	243.4	234.7	224.7	220.7	217.4
25°	223.4	214.0	204.0	200.7	196.7
27.5°	204.7	193.4	183.4	180.7	177.4
30°	186.7	174.7	162.7	162.7	158.0
32.5°	167.3	156.0	143.3	142.7	140.0
35°	148.7	137.3	124.7	123.3	120.7
37.5°	131.3	120.0	108.0	104.0	100.7
40°	112.0	102.0	92.0	85.3	81.3
42.5°	96.7	85.3	75.3	67.3	62.0
45°	77.3	69.3	61.3	51.3	44.7
47.5°	60.0	54.7	48.0	36.7	33.3
50°	44.0	41.3	36.0	27.3	26.7
52.5°	28.0	29.3	26.0	21.3	23.3
55°	13.3	18.7	17.3	18.0	19.3
57.5°	8.7	9.3	12.7	14.7	16.0
60°	6.7	6.7	9.3	12.0	13.3
62.5°	5.3	5.3	7.3	10.0	10.7
65°	4.0	4.7	5.3	7.3	8.7
67.5°	3.3	3.3	4.0	6.0	6.7
70°	2.7	2.7	3.3	4.7	5.3
72.5°	2.0	2.0	2.7	4.0	4.0
75°	1.3	2.0	2.0	2.7	3.3
77.5°	1.3	1.3	1.3	2.0	2.7
80°	0.7	0.7	1.3	1.3	2.0
82.5°	0.7	0.7	0.7	0.7	1.3
85°	0.0	0.0	0.0	0.7	0.7
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)