

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: P1058008

Luminaire Tested: S122RDR-S485D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058008
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-S485D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

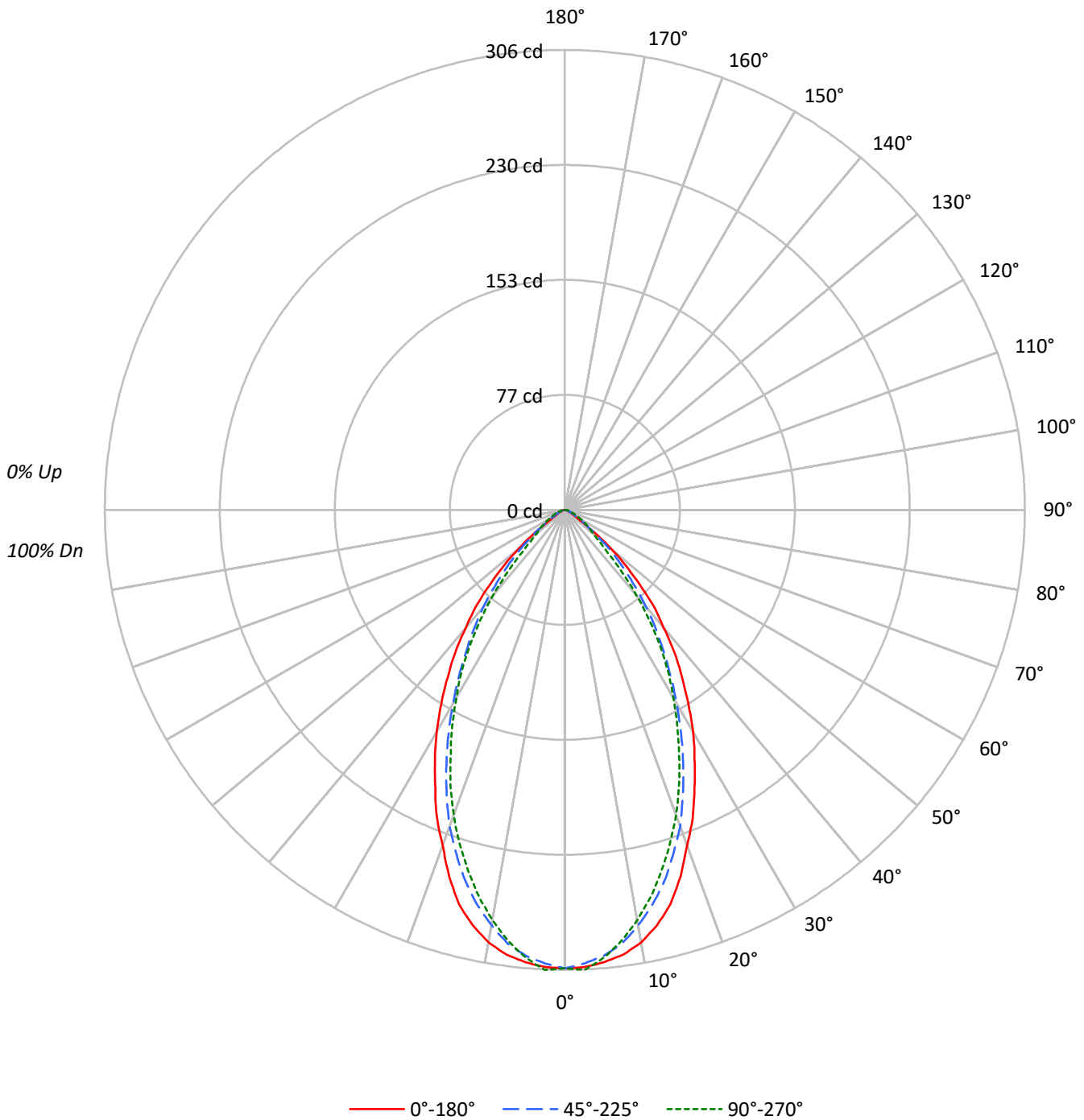
Lumens per Lamp: N/A
Luminaire Lumens: 328.1 lumens
Efficiency: N/A
Efficacy: 16.7 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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°	5630	5630	5630
5°	5596	5516	5538
10°	5477	5261	5192
15°	5188	4887	4747
20°	4664	4401	4245
25°	4153	3795	3659
30°	3633	3166	3075
35°	3059	2566	2482
40°	2464	2023	1790
45°	1842	1461	1065
50°	1154	944	700
55°	392	508	569
60°	225	314	450
65°	162	214	345
70°	129	162	264
75°	86	128	214
80°	64	128	191
85°	0	0	127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1842 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	8.6
10°-20°	72.0	21.9
20°-30°	86.7	26.4
30°-40°	74.1	22.6
40°-50°	43.4	13.2
50°-60°	15.7	4.8
60°-70°	5.6	1.7
70°-80°	2.2	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°	186.8	56.9
0°-40°	260.9	79.5
0°-60°	320.0	97.5
0°-90°	328.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	328.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	302	303	298	299	299	29
15°	272	267	256	251	248	75
25°	204	196	186	183	180	94
35°	136	126	114	113	110	85
45°	71	63	56	47	41	54
55°	12	17	16	16	18	15
65°	4	4	5	7	8	4
75°	1	2	2	2	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°	305.1	305.1	305.1	305.1	305.1
2.5°	304.5	305.1	302.1	305.1	306.4
5°	302.1	302.7	297.8	299.0	299.0
7.5°	298.4	297.8	291.1	289.9	289.3
10°	292.3	290.5	280.8	278.9	277.1
12.5°	283.2	279.6	269.2	266.2	263.7
15°	271.6	267.4	255.8	250.9	248.5
17.5°	255.8	250.9	240.0	235.1	232.7
20°	237.5	232.7	224.1	218.6	216.2
22.5°	222.3	214.4	205.2	201.6	198.5
25°	204.0	195.5	186.4	183.3	179.7
27.5°	187.0	176.6	167.5	165.1	162.0
30°	170.5	159.6	148.6	148.6	144.3
32.5°	152.9	142.5	130.9	130.3	127.9
35°	135.8	125.5	113.9	112.7	110.2
37.5°	120.0	109.6	98.7	95.0	92.0
40°	102.3	93.2	84.0	78.0	74.3
42.5°	88.3	78.0	68.8	61.5	56.6
45°	70.6	63.3	56.0	46.9	40.8
47.5°	54.8	49.9	43.9	33.5	30.5
50°	40.2	37.8	32.9	25.0	24.4
52.5°	25.6	26.8	23.8	19.5	21.3
55°	12.2	17.1	15.8	16.4	17.7
57.5°	7.9	8.5	11.6	13.4	14.6
60°	6.1	6.1	8.5	11.0	12.2
62.5°	4.9	4.9	6.7	9.1	9.7
65°	3.7	4.3	4.9	6.7	7.9
67.5°	3.0	3.0	3.7	5.5	6.1
70°	2.4	2.4	3.0	4.3	4.9
72.5°	1.8	1.8	2.4	3.7	3.7
75°	1.2	1.8	1.8	2.4	3.0
77.5°	1.2	1.2	1.2	1.8	2.4
80°	0.6	0.6	1.2	1.2	1.8
82.5°	0.6	0.6	0.6	0.6	1.2
85°	0.0	0.0	0.0	0.6	0.6
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)