

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1058572

Luminaire Tested: S122RDRP-H865D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-21)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-H865D935-X4F0-XX-UDD-BVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

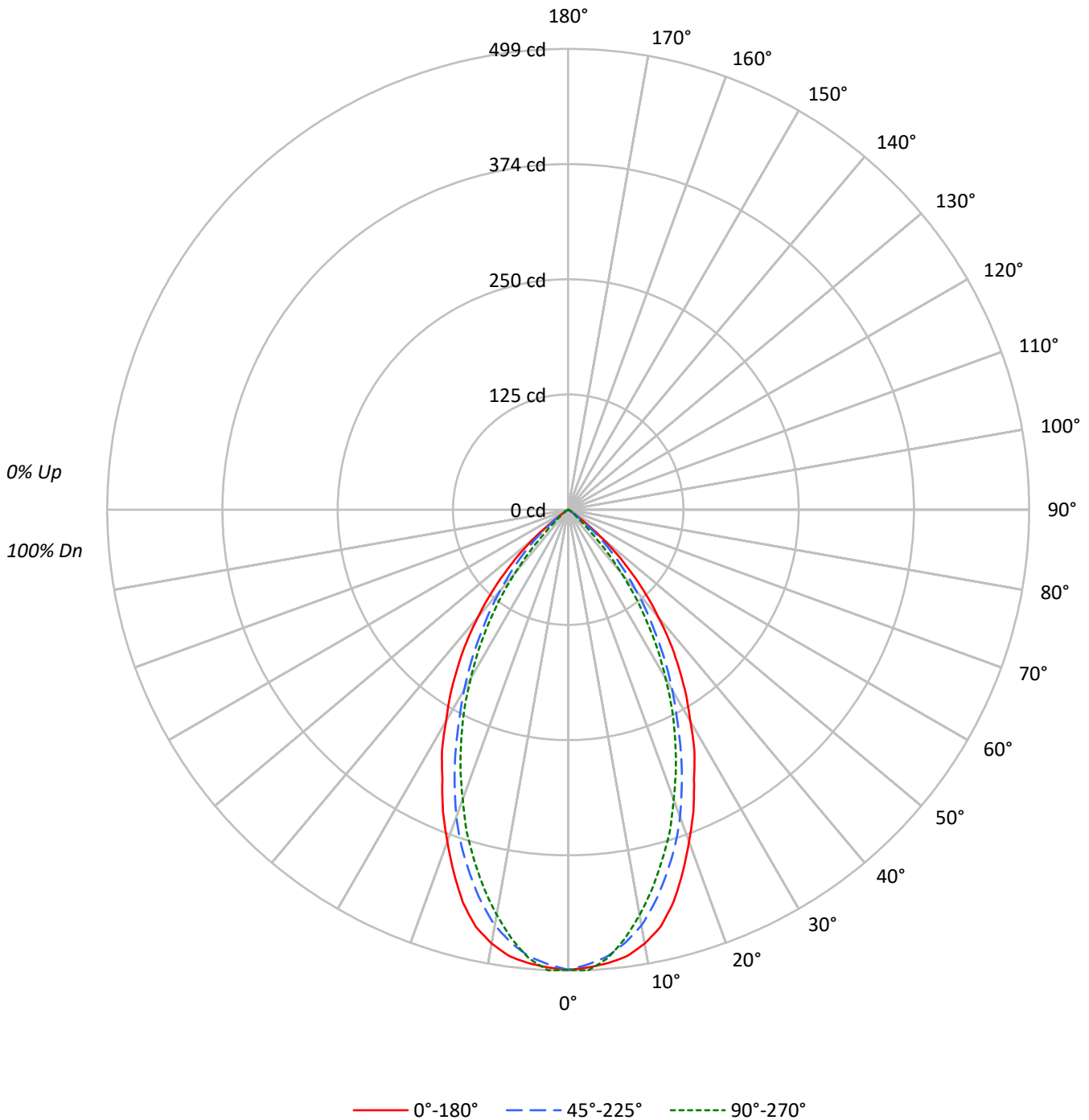
Lumens per Lamp: N/A
Luminaire Lumens: 468.5 lumens
Efficiency: N/A
Efficacy: 15.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.8 / 0.88
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): 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
RW	70	50	30	10	70	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
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87
3	101	95	89	85	99	93	89	85	91	87	83	88	85	82	86	83	81
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56
9	73	63	57	53	72	62	57	52	61	56	52	61	56	52	60	55	52
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9193	9193	9193
5°	9130	8995	9034
10°	8939	8565	8347
15°	8411	7827	7506
20°	7509	6949	6557
25°	6562	5876	5577
30°	5634	4803	4489
35°	4699	3748	3370
40°	3654	2765	2156
45°	2557	1842	934
50°	1392	967	333
55°	203	338	238
60°	41	78	155
65°	0	48	92
70°	0	0	59
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2557 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	9.8
10°-20°	115.4	24.6
20°-30°	134.5	28.7
30°-40°	107.8	23.0
40°-50°	53.5	11.4
50°-60°	10.6	2.3
60°-70°	1.0	0.2
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	295.6	63.1
0°-40°	403.4	86.1
0°-60°	467.5	99.8
0°-90°	468.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	468.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	498	498	498	498	498	
5°	493	493	486	487	488	47
15°	440	432	410	399	393	122
25°	322	306	289	282	274	148
35°	209	188	166	159	150	130
45°	98	86	71	47	36	76
55°	6	13	10	6	7	13
65°	0	0	1	1	2	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	498.2	498.2	498.2	498.2	498.2
2.5°	496.1	498.2	492.9	498.2	499.3
5°	492.9	492.9	485.6	486.6	487.7
7.5°	487.7	485.6	472.9	470.8	468.7
10°	477.1	472.9	457.1	448.7	445.5
12.5°	462.4	456.1	435.0	425.5	420.3
15°	440.3	431.9	409.7	399.2	392.9
17.5°	411.8	404.5	383.4	371.8	365.5
20°	382.4	371.8	353.9	342.3	333.9
22.5°	353.9	340.2	321.3	312.8	304.4
25°	322.3	306.5	288.6	282.3	273.9
27.5°	296.0	276.0	254.9	250.7	243.3
30°	264.4	245.4	225.4	219.1	210.7
32.5°	237.0	215.9	195.9	188.5	181.2
35°	208.6	187.5	166.4	159.0	149.6
37.5°	181.2	161.2	140.1	128.5	120.1
40°	151.7	134.8	114.8	100.1	89.5
42.5°	125.3	110.6	91.6	72.7	62.1
45°	98.0	86.4	70.6	47.4	35.8
47.5°	72.7	64.3	51.6	27.4	19.0
50°	48.5	45.3	33.7	13.7	11.6
52.5°	26.3	28.4	20.0	8.4	9.5
55°	6.3	12.6	10.5	6.3	7.4
57.5°	1.1	2.1	5.3	5.3	5.3
60°	1.1	1.1	2.1	3.2	4.2
62.5°	1.1	0.0	1.1	2.1	3.2
65°	0.0	0.0	1.1	1.1	2.1
67.5°	0.0	0.0	0.0	1.1	1.1
70°	0.0	0.0	0.0	1.1	1.1
72.5°	0.0	0.0	0.0	0.0	1.1
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00