

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: P1057843

Luminaire Tested: S122RDR-S1005D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057843
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: S122RDR-S1005D935-X4F0-XX-UDD-BVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

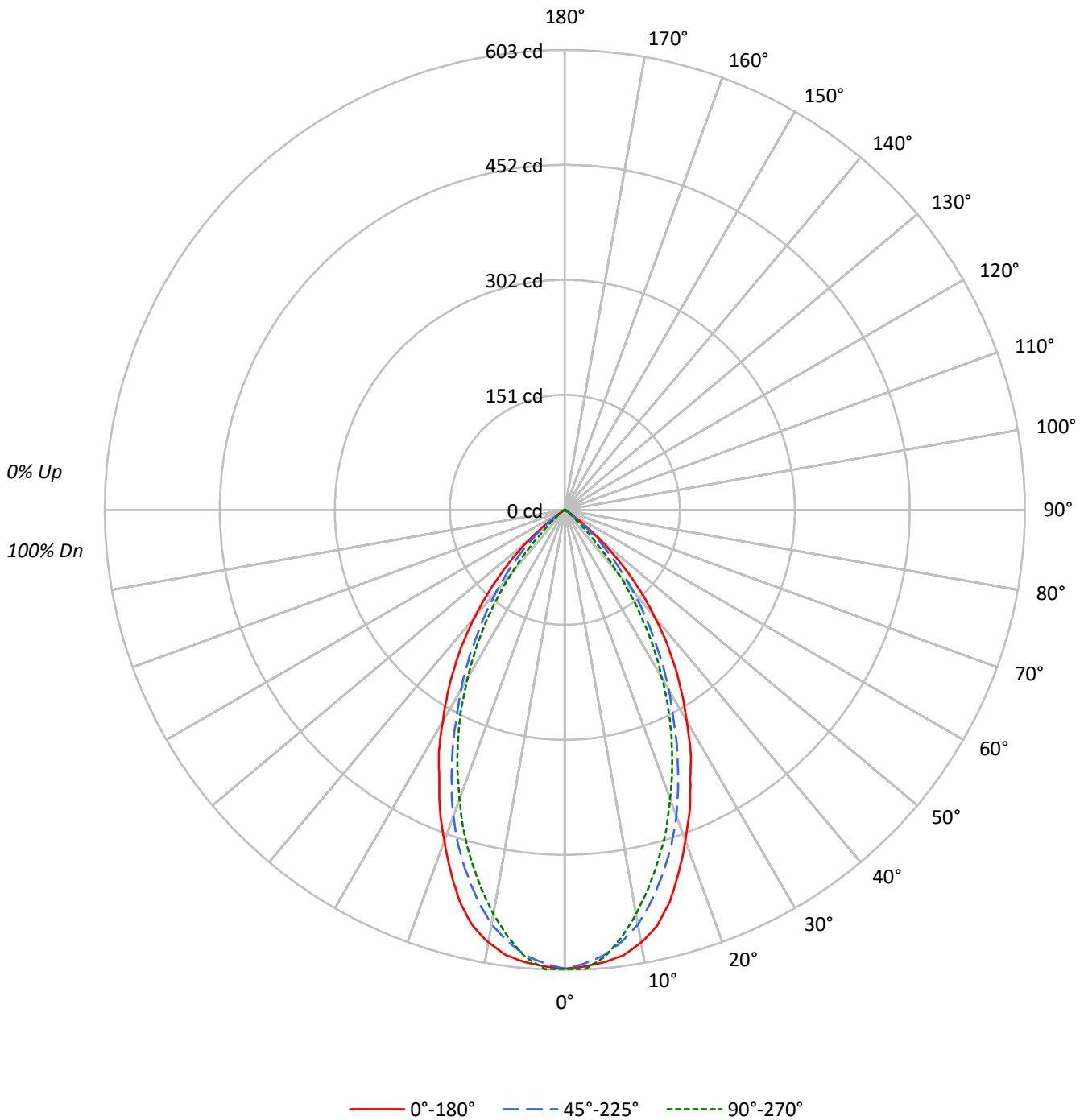
Lumens per Lamp: N/A
Luminaire Lumens: 565.8 lumens
Efficiency: N/A
Efficacy: 13.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.8 / 0.88
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93													
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86													
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79													
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73													
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67													
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62													
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58													
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54													
9	73	63	57	53	72	62	57	52	61	56	52	61	56	52	60	55	52	51													
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11103	11103	11103
5°	11027	10862	10908
10°	10796	10345	10082
15°	10157	9452	9065
20°	9066	8393	7918
25°	7924	7095	6733
30°	6803	5800	5421
35°	5674	4528	4068
40°	4413	3339	2604
45°	3087	2223	1127
50°	1679	1168	402
55°	244	409	286
60°	48	92	188
65°	0	57	109
70°	0	0	70
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3087 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	9.8
10°-20°	139.3	24.6
20°-30°	162.4	28.7
30°-40°	130.2	23.0
40°-50°	64.7	11.4
50°-60°	12.8	2.3
60°-70°	1.1	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°	357.0	63.1
0°-40°	487.1	86.1
0°-60°	564.6	99.8
0°-90°	565.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	595	595	586	588	589	56
15°	532	522	495	482	474	148
25°	389	370	348	341	331	179
35°	252	226	201	192	181	157
45°	118	104	85	57	43	91
55°	8	15	13	8	9	15
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°	601.7	601.7	601.7	601.7	601.7
2.5°	599.1	601.7	595.3	601.7	602.9
5°	595.3	595.3	586.4	587.7	588.9
7.5°	588.9	586.4	571.1	568.6	566.0
10°	576.2	571.1	552.1	541.9	538.1
12.5°	558.4	550.8	525.3	513.9	507.5
15°	531.7	521.5	494.8	482.1	474.5
17.5°	497.4	488.5	463.0	449.0	441.4
20°	461.7	449.0	427.4	413.4	403.2
22.5°	427.4	410.9	388.0	377.8	367.6
25°	389.2	370.2	348.5	340.9	330.7
27.5°	357.4	333.3	307.8	302.7	293.8
30°	319.3	296.4	272.2	264.6	254.4
32.5°	286.2	260.8	236.6	227.7	218.8
35°	251.9	226.4	201.0	192.1	180.6
37.5°	218.8	194.6	169.2	155.2	145.0
40°	183.2	162.8	138.6	120.8	108.1
42.5°	151.4	133.6	110.7	87.8	75.0
45°	118.3	104.3	85.2	57.2	43.2
47.5°	87.8	77.6	62.3	33.1	22.9
50°	58.5	54.7	40.7	16.5	14.0
52.5°	31.8	34.3	24.2	10.2	11.4
55°	7.6	15.3	12.7	7.6	8.9
57.5°	1.3	2.5	6.4	6.4	6.4
60°	1.3	1.3	2.5	3.8	5.1
62.5°	1.3	0.0	1.3	2.5	3.8
65°	0.0	0.0	1.3	1.3	2.5
67.5°	0.0	0.0	0.0	1.3	1.3
70°	0.0	0.0	0.0	1.3	1.3
72.5°	0.0	0.0	0.0	0.0	1.3
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

(END OF REPORT)