

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: P1057848

Luminaire Tested: S122RDR-S1005D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

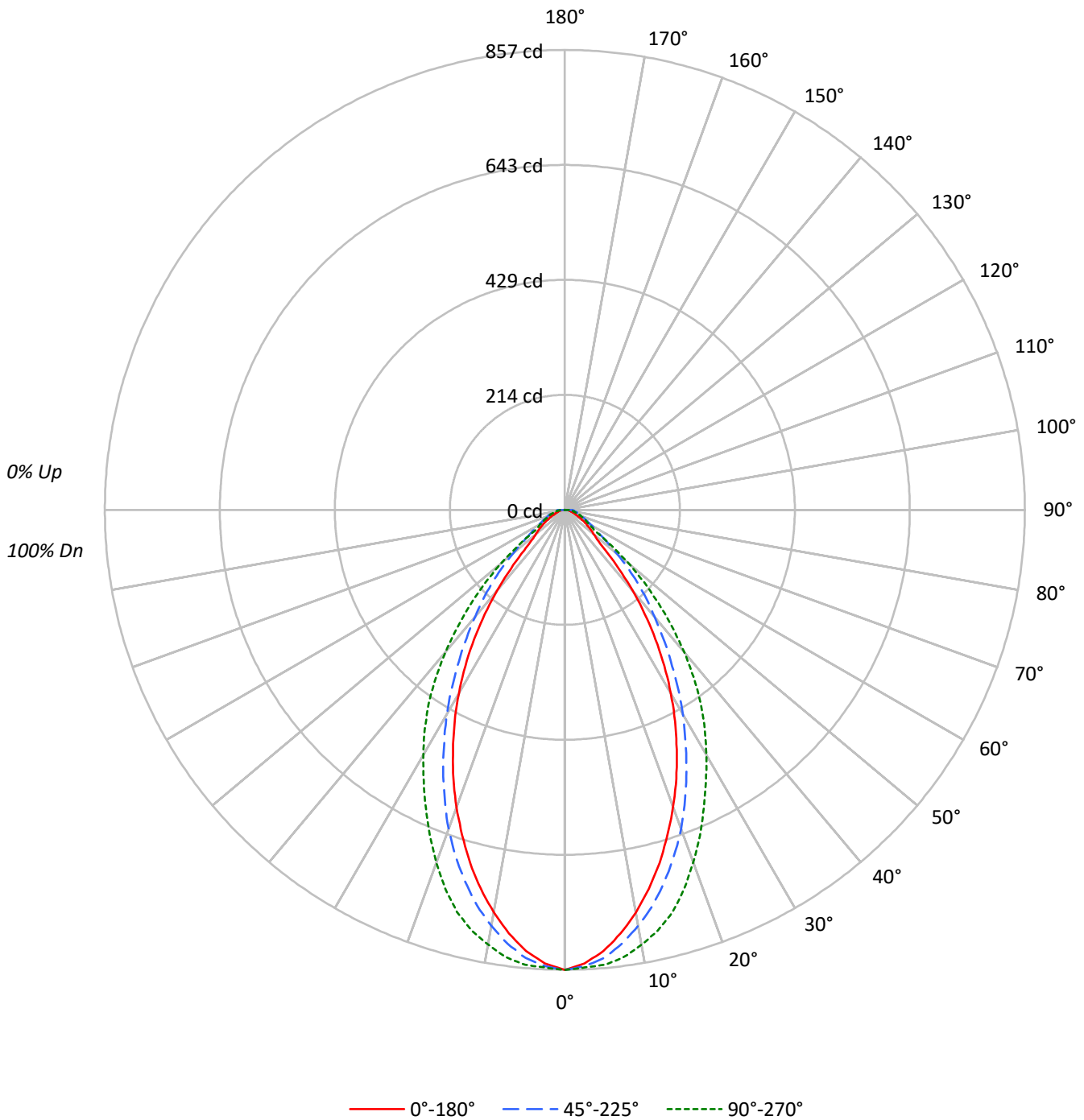
Lumens per Lamp: N/A
Luminaire Lumens: 1039.9 lumens
Efficiency: N/A
Efficacy: 24.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15819	15819	15819
5°	15289	15526	15761
10°	14274	14750	15419
15°	13019	13701	14820
20°	11582	12432	13732
25°	10038	10919	12475
30°	8414	9364	11237
35°	6629	7747	9957
40°	4726	6260	8315
45°	2792	4953	6448
50°	2012	3583	4389
55°	1679	2583	2213
60°	1362	2067	1882
65°	1113	1834	1725
70°	960	1786	1651
75°	905	1818	1633
80°	946	2168	1764
85°	1355	3515	2160

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6448 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	7.6
10°-20°	202.0	19.4
20°-30°	249.2	24.0
30°-40°	221.7	21.3
40°-50°	141.5	13.6
50°-60°	67.9	6.5
60°-70°	39.9	3.8
70°-80°	25.5	2.4
80°-90°	13.6	1.3
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°	529.8	51.0
0°-40°	751.5	72.3
0°-60°	960.9	92.4
0°-90°	1039.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	825	841	838	843	851	77
15°	682	698	717	750	776	190
25°	493	512	536	574	613	226
35°	294	317	344	396	442	183
45°	107	139	190	220	247	90
55°	52	68	80	78	69	47
65°	26	46	42	38	40	26
75°	13	28	26	24	23	14
85°	6	15	17	14	10	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.3	857.3	857.3	857.3	857.3
2.5°	845.8	859.8	850.9	850.9	853.5
5°	825.4	840.7	838.2	843.3	850.9
7.5°	796.1	812.7	815.3	829.3	840.7
10°	761.8	779.6	787.2	807.6	822.9
12.5°	723.5	741.4	755.4	780.9	802.5
15°	681.5	698.1	717.2	750.3	775.8
17.5°	635.6	657.3	676.4	710.8	740.1
20°	589.8	610.2	633.1	666.2	699.3
22.5°	542.7	561.8	584.7	619.1	657.3
25°	493.0	512.1	536.3	574.5	612.7
27.5°	444.6	463.7	486.6	528.6	569.4
30°	394.9	414.0	439.5	482.8	527.4
32.5°	345.2	365.6	391.1	438.2	485.3
35°	294.3	317.2	343.9	396.2	442.0
37.5°	244.6	267.5	300.6	351.6	394.9
40°	196.2	222.9	259.9	305.7	345.2
42.5°	149.0	178.3	224.2	261.1	295.5
45°	107.0	138.8	189.8	220.4	247.1
47.5°	81.5	104.5	156.7	180.9	200.0
50°	70.1	84.1	124.8	142.7	152.9
52.5°	61.1	73.9	99.4	108.3	108.3
55°	52.2	67.5	80.3	77.7	68.8
57.5°	44.6	61.1	66.2	56.0	58.6
60°	36.9	56.0	56.0	49.7	51.0
62.5°	30.6	52.2	48.4	43.3	44.6
65°	25.5	45.9	42.0	38.2	39.5
67.5°	20.4	40.8	36.9	34.4	34.4
70°	17.8	36.9	33.1	30.6	30.6
72.5°	15.3	31.8	29.3	26.8	26.8
75°	12.7	28.0	25.5	24.2	22.9
77.5°	11.5	24.2	22.9	20.4	19.1
80°	8.9	20.4	20.4	19.1	16.6
82.5°	7.6	17.8	17.8	16.6	14.0
85°	6.4	15.3	16.6	14.0	10.2
87.5°	5.1	14.0	14.0	11.5	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)