

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: P1060355

Luminaire Tested: S124RDR-S1195D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

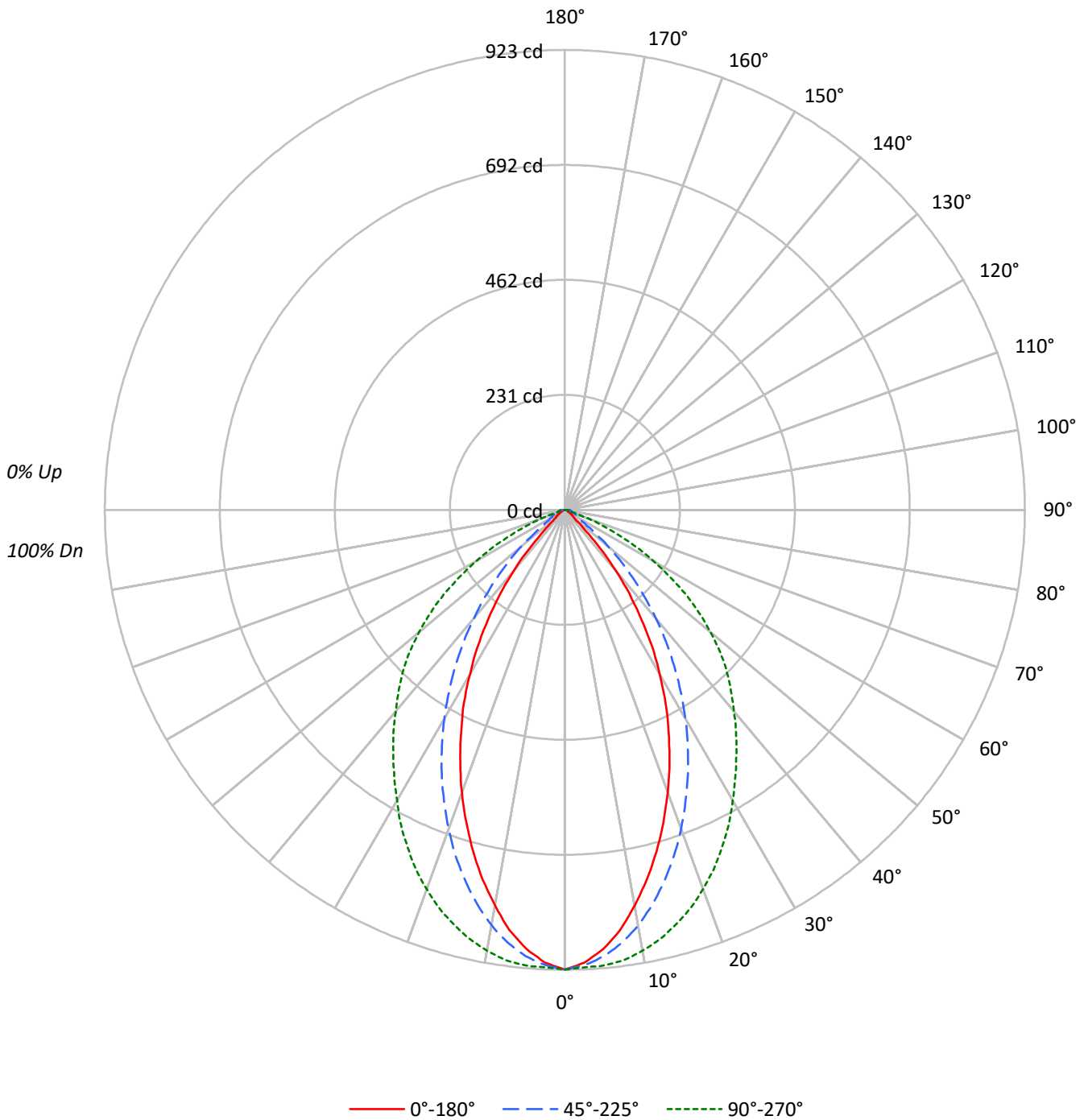
Lumens per Lamp: N/A
Luminaire Lumens: 1158.1 lumens
Efficiency: N/A
Efficacy: 27.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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									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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																												
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81																												
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73																												
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																												
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59																												
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54																												
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50																												
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46																												
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																												
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7945	7945	7945
5°	7648	7775	7933
10°	7053	7405	7855
15°	6330	6875	7681
20°	5532	6250	7425
25°	4679	5551	7095
30°	3779	4813	6696
35°	2813	4021	6308
40°	1786	3187	5935
45°	715	2337	5596
50°	311	1490	5108
55°	239	770	4459
60°	169	527	3536
65°	124	524	2415
70°	123	461	1108
75°	163	489	446
80°	243	545	486
85°	484	968	721

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5596 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	7.3
10°-20°	217.9	18.8
20°-30°	275.2	23.8
30°-40°	252.7	21.8
40°-50°	172.3	14.9
50°-60°	93.5	8.1
60°-70°	39.6	3.4
70°-80°	13.7	1.2
80°-90°	8.7	0.8
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°	577.5	49.9
0°-40°	830.2	71.7
0°-60°	1096.0	94.6
0°-90°	1158.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	885	898	900	907	918	82
15°	710	733	771	826	862	198
25°	492	524	584	675	747	225
35°	268	303	382	502	600	166
45°	59	94	192	340	460	54
55°	16	17	51	187	297	14
65°	6	7	26	59	118	6
75°	5	13	15	13	13	5
85°	5	10	10	10	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.7	922.7	922.7	922.7	922.7
2.5°	909.3	920.3	914.2	916.6	919.1
5°	884.8	898.3	899.5	906.8	917.8
7.5°	850.6	866.5	876.3	894.6	911.7
10°	806.6	826.2	846.9	876.3	898.3
12.5°	760.2	781.0	811.5	853.1	882.4
15°	710.1	733.3	771.2	826.2	861.6
17.5°	657.5	683.2	728.4	793.2	838.4
20°	603.7	631.8	682.0	755.3	810.3
22.5°	548.7	578.1	633.1	716.2	781.0
25°	492.5	524.3	584.2	674.6	746.7
27.5°	438.8	468.1	534.1	633.1	712.5
30°	380.1	413.1	484.0	590.3	673.4
32.5°	326.3	358.1	432.6	546.3	636.7
35°	267.6	303.1	382.5	502.3	600.1
37.5°	212.7	246.9	333.6	460.7	564.6
40°	158.9	194.3	283.5	419.2	528.0
42.5°	106.3	144.2	235.9	376.4	493.7
45°	58.7	94.1	191.9	339.8	459.5
47.5°	30.6	51.3	150.3	303.1	422.9
50°	23.2	28.1	111.2	262.8	381.3
52.5°	19.6	20.8	75.8	222.4	339.8
55°	15.9	17.1	51.3	187.0	297.0
57.5°	12.2	13.4	36.7	152.8	249.3
60°	9.8	11.0	30.6	117.3	205.3
62.5°	7.3	8.6	29.3	86.8	161.3
65°	6.1	7.3	25.7	58.7	118.5
67.5°	4.9	7.3	22.0	37.9	79.4
70°	4.9	9.8	18.3	24.4	44.0
72.5°	4.9	11.0	15.9	15.9	15.9
75°	4.9	13.4	14.7	13.4	13.4
77.5°	4.9	12.2	12.2	12.2	12.2
80°	4.9	11.0	11.0	11.0	9.8
82.5°	4.9	9.8	11.0	11.0	8.6
85°	4.9	9.8	9.8	9.8	7.3
87.5°	3.7	9.8	9.8	9.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)