

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: P1060517

Luminaire Tested: S124RDR-S575D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060517
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-S575D935-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

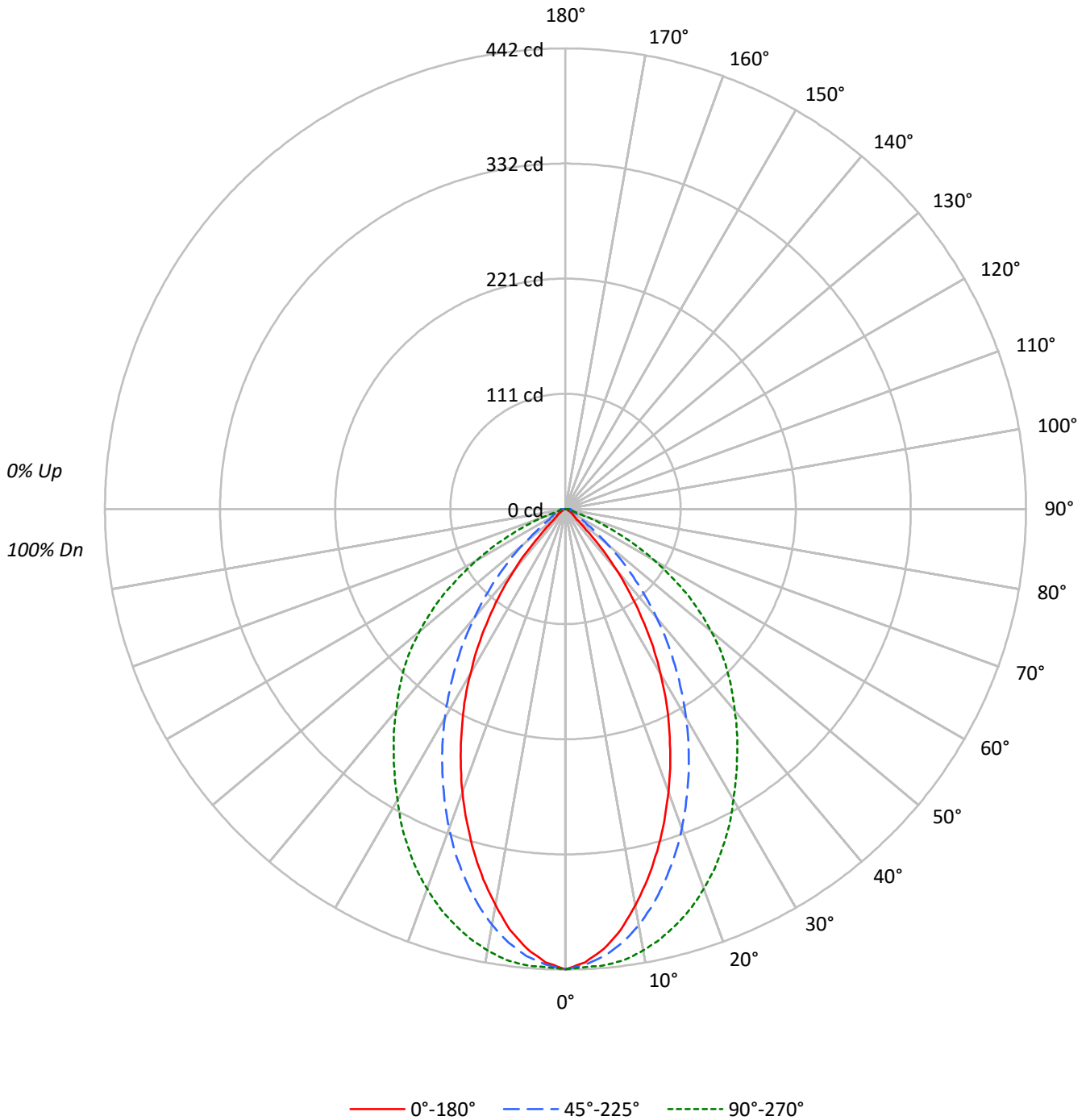
Lumens per Lamp: N/A
Luminaire Lumens: 554.5 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3804	3804	3804
5°	3662	3723	3799
10°	3377	3546	3761
15°	3031	3292	3678
20°	2649	2992	3556
25°	2240	2658	3398
30°	1810	2304	3206
35°	1348	1926	3020
40°	855	1527	2842
45°	342	1119	2679
50°	149	714	2446
55°	114	369	2135
60°	81	251	1693
65°	59	251	1157
70°	58	222	531
75°	77	233	213
80°	114	263	233
85°	227	464	346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2679 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	7.3
10°-20°	104.3	18.8
20°-30°	131.7	23.8
30°-40°	121.0	21.8
40°-50°	82.5	14.9
50°-60°	44.8	8.1
60°-70°	19.0	3.4
70°-80°	6.6	1.2
80°-90°	4.2	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°	276.5	49.9
0°-40°	397.5	71.7
0°-60°	524.8	94.6
0°-90°	554.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	554.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	424	430	431	434	440	39
15°	340	351	369	396	413	95
25°	236	251	280	323	358	108
35°	128	145	183	240	287	80
45°	28	45	92	163	220	26
55°	8	8	25	90	142	7
65°	3	4	12	28	57	3
75°	2	6	7	6	6	2
85°	2	5	5	5	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.8	441.8	441.8	441.8	441.8
2.5°	435.4	440.7	437.7	438.9	440.1
5°	423.7	430.1	430.7	434.2	439.5
7.5°	407.3	414.9	419.6	428.4	436.6
10°	386.2	395.6	405.5	419.6	430.1
12.5°	364.0	373.9	388.6	408.5	422.5
15°	340.0	351.1	369.3	395.6	412.6
17.5°	314.8	327.1	348.8	379.8	401.4
20°	289.1	302.5	326.5	361.7	388.0
22.5°	262.8	276.8	303.1	342.9	373.9
25°	235.8	251.0	279.7	323.0	357.6
27.5°	210.1	224.1	255.7	303.1	341.2
30°	182.0	197.8	231.7	282.6	322.4
32.5°	156.2	171.5	207.2	261.6	304.9
35°	128.2	145.1	183.2	240.5	287.3
37.5°	101.8	118.2	159.8	220.6	270.4
40°	76.1	93.0	135.8	200.7	252.8
42.5°	50.9	69.1	112.9	180.2	236.4
45°	28.1	45.1	91.9	162.7	220.0
47.5°	14.6	24.6	72.0	145.1	202.5
50°	11.1	13.5	53.3	125.8	182.6
52.5°	9.4	9.9	36.3	106.5	162.7
55°	7.6	8.2	24.6	89.5	142.2
57.5°	5.9	6.4	17.6	73.1	119.4
60°	4.7	5.3	14.6	56.2	98.3
62.5°	3.5	4.1	14.0	41.5	77.2
65°	2.9	3.5	12.3	28.1	56.8
67.5°	2.3	3.5	10.5	18.1	38.0
70°	2.3	4.7	8.8	11.7	21.1
72.5°	2.3	5.3	7.6	7.6	7.6
75°	2.3	6.4	7.0	6.4	6.4
77.5°	2.3	5.9	5.9	5.9	5.9
80°	2.3	5.3	5.3	5.3	4.7
82.5°	2.3	4.7	5.3	5.3	4.1
85°	2.3	4.7	4.7	4.7	3.5
87.5°	1.8	4.7	4.7	4.7	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)