

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: P1060520

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S575D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

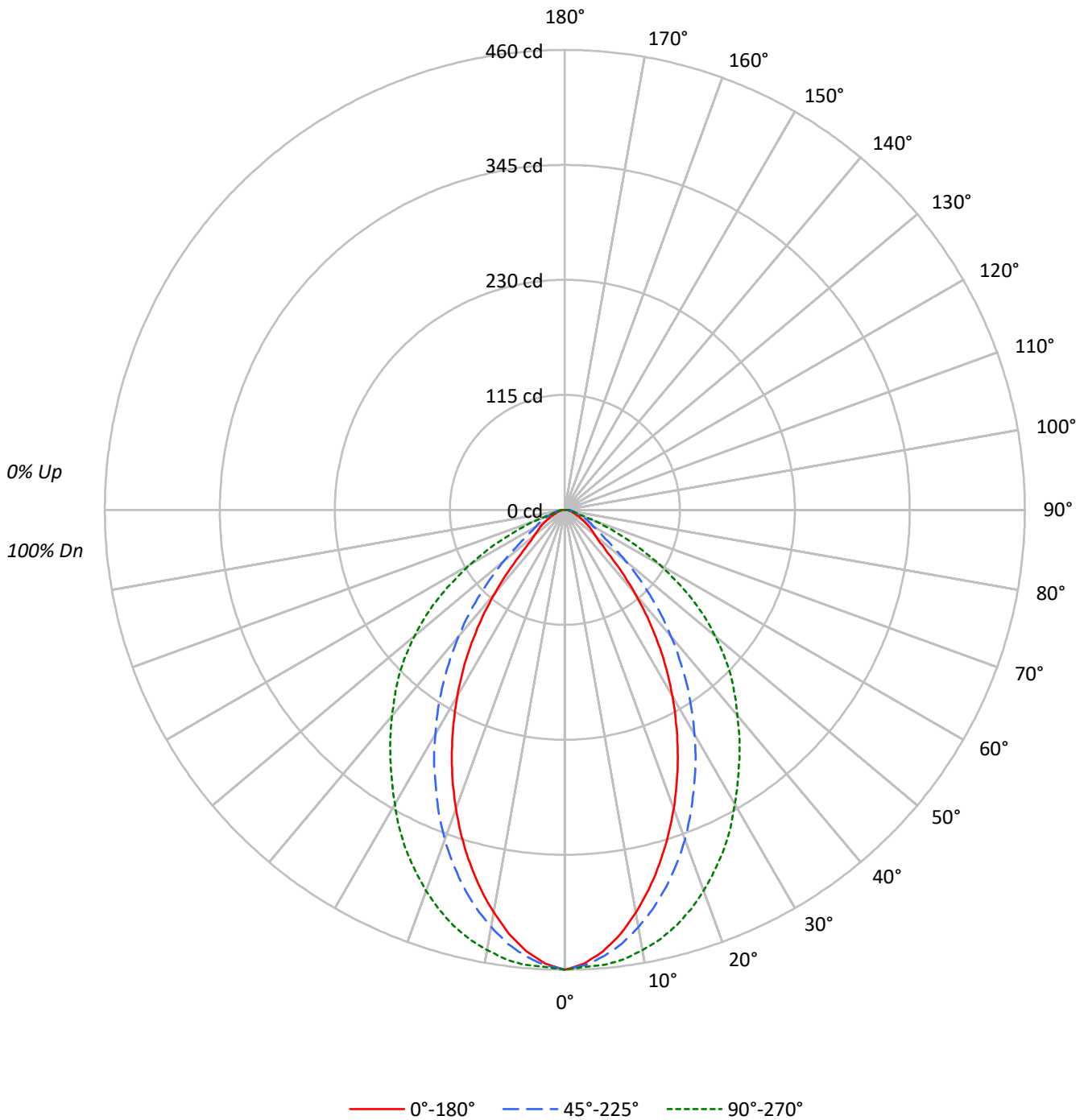
Lumens per Lamp: N/A
Luminaire Lumens: 646.6 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63				63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57				57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43				43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3960	3960	3960
5°	3828	3874	3949
10°	3576	3704	3909
15°	3266	3484	3839
20°	2917	3216	3716
25°	2541	2902	3569
30°	2141	2577	3380
35°	1709	2233	3198
40°	1230	1855	3018
45°	740	1460	2857
50°	533	1058	2626
55°	447	712	2327
60°	363	565	1874
65°	285	513	1347
70°	249	428	723
75°	233	389	349
80°	233	407	317
85°	346	583	405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2857 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	6.5
10°-20°	110.6	17.1
20°-30°	143.5	22.2
30°-40°	138.0	21.3
40°-50°	102.4	15.8
50°-60°	62.7	9.7
60°-70°	30.5	4.7
70°-80°	11.6	1.8
80°-90°	5.2	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°	296.4	45.8
0°-40°	434.3	67.2
0°-60°	599.4	92.7
0°-90°	646.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	443	449	448	452	457	41
15°	366	377	391	414	431	102
25°	267	281	305	345	376	122
35°	163	177	212	263	304	101
45°	61	76	120	183	235	50
55°	30	31	47	107	155	27
65°	14	15	25	40	66	15
75°	7	11	12	10	10	7
85°	4	6	6	5	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.9	459.9	459.9	459.9	459.9
2.5°	454.0	459.3	455.8	456.9	457.5
5°	442.9	449.3	448.2	452.3	456.9
7.5°	427.7	435.3	437.6	445.8	453.4
10°	409.0	418.3	423.6	437.0	447.0
12.5°	388.5	398.4	408.4	426.5	440.0
15°	366.3	376.8	390.8	414.2	430.6
17.5°	342.9	354.6	371.5	399.6	418.9
20°	318.3	330.6	351.0	382.1	405.5
22.5°	293.1	306.0	328.8	363.3	390.8
25°	267.4	280.8	305.4	344.6	375.6
27.5°	241.0	255.1	283.2	324.7	358.6
30°	215.3	228.8	259.2	304.2	339.9
32.5°	189.0	203.0	235.8	283.2	321.8
35°	162.6	177.3	212.4	262.7	304.2
37.5°	135.7	151.5	188.4	242.8	286.7
40°	109.4	124.6	165.0	222.3	268.5
42.5°	83.7	100.0	142.8	201.8	251.6
45°	60.8	76.1	119.9	183.1	234.6
47.5°	45.6	55.0	98.9	165.6	215.9
50°	39.8	41.5	79.0	146.3	196.0
52.5°	34.5	35.7	61.4	125.2	176.1
55°	29.8	31.0	47.4	107.1	155.0
57.5°	25.2	26.3	38.0	89.5	131.1
60°	21.1	22.2	32.8	71.4	108.8
62.5°	17.6	18.1	29.3	54.4	87.2
65°	14.0	15.2	25.2	39.8	66.1
67.5°	11.7	12.9	20.5	27.5	46.2
70°	9.9	12.9	17.0	19.3	28.7
72.5°	8.2	11.7	14.0	13.5	13.5
75°	7.0	11.1	11.7	10.5	10.5
77.5°	5.9	9.9	9.4	8.8	8.2
80°	4.7	8.2	8.2	7.0	6.4
82.5°	4.1	6.4	6.4	6.4	5.3
85°	3.5	5.9	5.9	5.3	4.1
87.5°	2.3	4.7	5.3	4.7	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)