

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: P1060349

Luminaire Tested: S124RDR-S1195D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060349
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-S1195D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

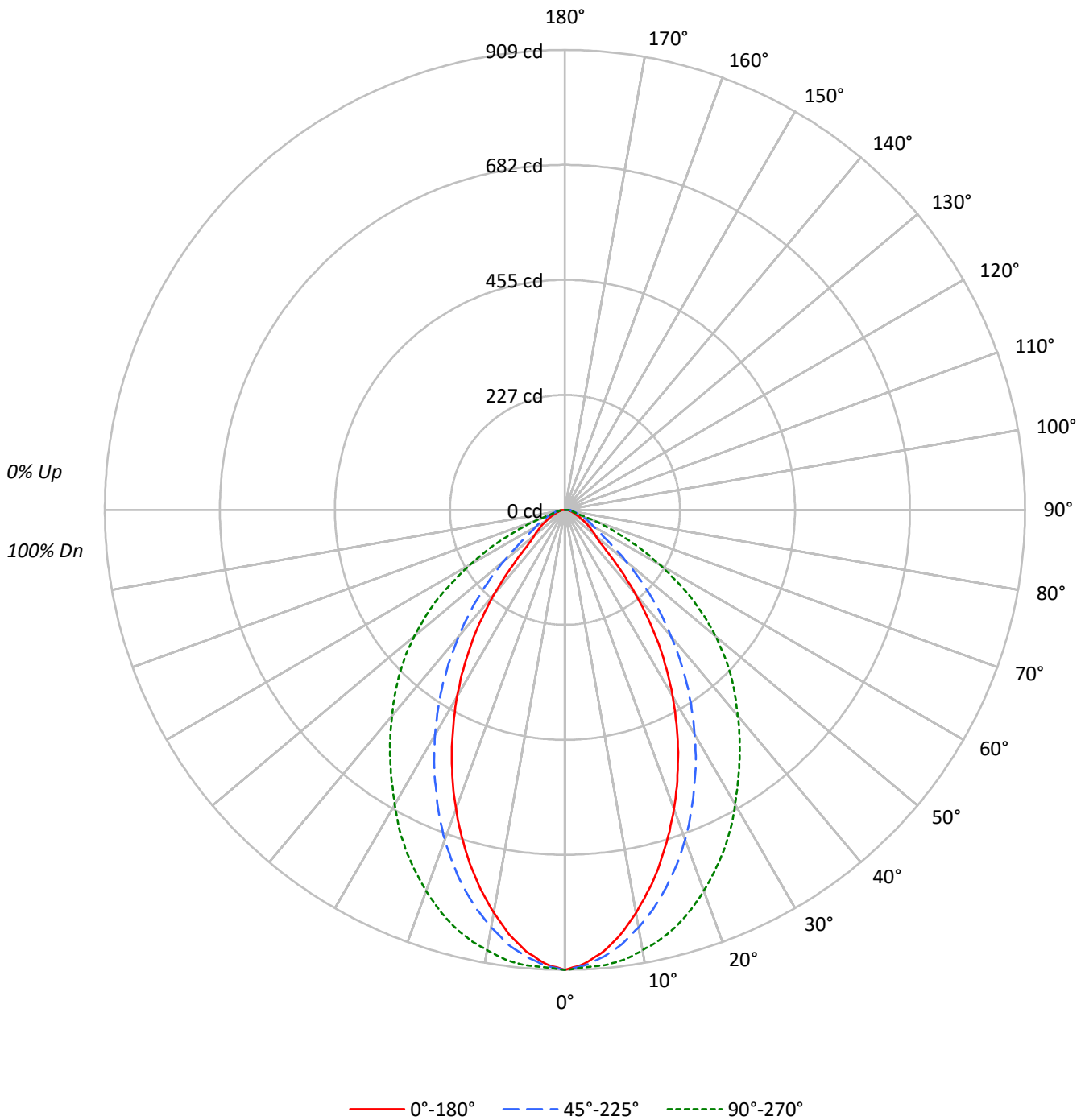
Lumens per Lamp: N/A
Luminaire Lumens: 1278.8 lumens
Efficiency: N/A
Efficacy: 30.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7831	7831	7831
5°	7571	7661	7811
10°	7072	7325	7730
15°	6457	6890	7592
20°	5768	6361	7348
25°	5024	5739	7058
30°	4234	5097	6684
35°	3382	4415	6325
40°	2433	3668	5970
45°	1465	2889	5651
50°	1054	2093	5193
55°	886	1407	4603
60°	718	1116	3706
65°	566	1015	2663
70°	496	846	1428
75°	462	769	692
80°	461	803	630
85°	682	1146	800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	6.5
10°-20°	218.7	17.1
20°-30°	283.8	22.2
30°-40°	272.8	21.3
40°-50°	202.4	15.8
50°-60°	124.0	9.7
60°-70°	60.2	4.7
70°-80°	22.9	1.8
80°-90°	10.3	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°	586.1	45.8
0°-40°	858.9	67.2
0°-60°	1185.3	92.7
0°-90°	1278.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1278.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	876	889	886	894	904	81
15°	724	745	773	819	852	202
25°	529	555	604	682	743	242
35°	322	351	420	520	602	199
45°	120	150	237	362	464	100
55°	59	61	94	212	307	53
65°	28	30	50	79	131	29
75°	14	22	23	21	21	15
85°	7	12	12	10	8	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	909.4	909.4	909.4	909.4	909.4
2.5°	897.9	908.3	901.3	903.6	904.8
5°	875.9	888.6	886.3	894.4	903.6
7.5°	845.8	860.8	865.5	881.7	896.7
10°	808.8	827.3	837.7	864.3	884.0
12.5°	768.3	787.9	807.6	843.5	870.1
15°	724.3	745.1	772.9	819.2	851.6
17.5°	678.0	701.2	734.7	790.3	828.4
20°	629.4	653.7	694.2	755.5	801.8
22.5°	579.7	605.1	650.3	718.5	772.9
25°	528.8	555.4	604.0	681.5	742.8
27.5°	476.7	504.5	560.0	642.2	709.3
30°	425.8	452.4	512.6	601.7	672.2
32.5°	373.7	401.5	466.3	560.0	636.4
35°	321.7	350.6	420.0	519.5	601.7
37.5°	268.4	299.7	372.6	480.2	566.9
40°	216.4	246.4	326.3	439.7	531.1
42.5°	165.5	197.9	282.3	399.2	497.5
45°	120.3	150.4	237.2	362.2	464.0
47.5°	90.2	108.8	195.5	327.4	426.9
50°	78.7	82.1	156.2	289.3	387.6
52.5°	68.3	70.6	121.5	247.6	348.3
55°	59.0	61.3	93.7	211.7	306.6
57.5°	49.8	52.1	75.2	177.0	259.2
60°	41.7	44.0	64.8	141.2	215.2
62.5°	34.7	35.9	57.9	107.6	172.4
65°	27.8	30.1	49.8	78.7	130.7
67.5°	23.1	25.5	40.5	54.4	91.4
70°	19.7	25.5	33.6	38.2	56.7
72.5°	16.2	23.1	27.8	26.6	26.6
75°	13.9	22.0	23.1	20.8	20.8
77.5°	11.6	19.7	18.5	17.4	16.2
80°	9.3	16.2	16.2	13.9	12.7
82.5°	8.1	12.7	12.7	12.7	10.4
85°	6.9	11.6	11.6	10.4	8.1
87.5°	4.6	9.3	10.4	9.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)