

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: P1060358

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060358
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-S1195D935-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

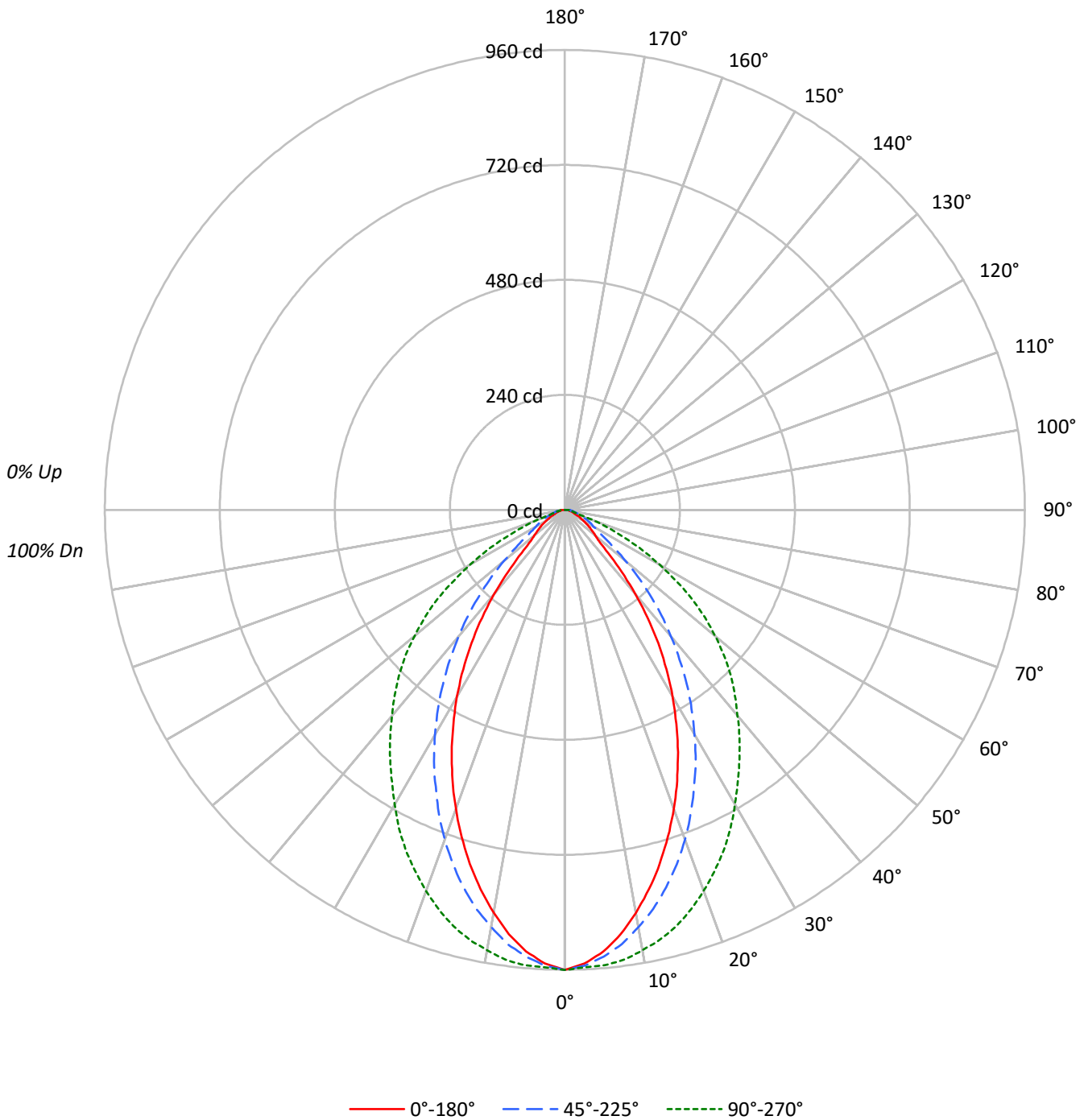
Lumens per Lamp: N/A
Luminaire Lumens: 1350.5 lumens
Efficiency: N/A
Efficacy: 32.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8270	8270	8270
5°	7996	8091	8249
10°	7468	7735	8162
15°	6819	7276	8017
20°	6091	6718	7760
25°	5306	6060	7454
30°	4471	5382	7059
35°	3571	4662	6679
40°	2569	3874	6304
45°	1548	3051	5967
50°	1113	2210	5483
55°	935	1486	4861
60°	758	1178	3915
65°	597	1070	2814
70°	524	891	1508
75°	489	812	732
80°	486	848	664
85°	721	1205	850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	6.5
10°-20°	231.0	17.1
20°-30°	299.7	22.2
30°-40°	288.1	21.3
40°-50°	213.8	15.8
50°-60°	130.9	9.7
60°-70°	63.6	4.7
70°-80°	24.2	1.8
80°-90°	10.9	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°	618.9	45.8
0°-40°	907.0	67.2
0°-60°	1251.8	92.7
0°-90°	1350.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1350.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	925	938	936	944	954	86
15°	765	787	816	865	899	214
25°	558	586	638	720	784	255
35°	340	370	444	549	635	210
45°	127	159	250	382	490	105
55°	62	65	99	224	324	56
65°	29	32	52	83	138	30
75°	15	23	24	22	22	16
85°	7	12	12	11	9	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.4	960.4	960.4	960.4	960.4
2.5°	948.2	959.2	951.9	954.3	955.5
5°	925.0	938.4	936.0	944.5	954.3
7.5°	893.2	909.1	914.0	931.1	947.0
10°	854.1	873.6	884.6	912.7	933.5
12.5°	811.3	832.1	852.9	890.8	918.9
15°	764.9	786.9	816.2	865.1	899.3
17.5°	716.0	740.5	775.9	834.5	874.9
20°	664.7	690.4	733.1	797.9	846.8
22.5°	612.2	639.0	686.7	758.8	816.2
25°	558.4	586.5	637.8	719.7	784.5
27.5°	503.4	532.7	591.4	678.1	749.0
30°	449.7	477.8	541.3	635.4	709.9
32.5°	394.7	424.0	492.4	591.4	672.0
35°	339.7	370.2	443.5	548.6	635.4
37.5°	283.5	316.5	393.4	507.1	598.7
40°	228.5	260.3	344.6	464.3	560.8
42.5°	174.7	208.9	298.1	421.6	525.4
45°	127.1	158.8	250.5	382.5	490.0
47.5°	95.3	114.9	206.5	345.8	450.9
50°	83.1	86.8	165.0	305.5	409.3
52.5°	72.1	74.5	128.3	261.5	367.8
55°	62.3	64.8	99.0	223.6	323.8
57.5°	52.5	55.0	79.4	186.9	273.7
60°	44.0	46.4	68.4	149.1	227.3
62.5°	36.7	37.9	61.1	113.6	182.1
65°	29.3	31.8	52.5	83.1	138.1
67.5°	24.4	26.9	42.8	57.4	96.5
70°	20.8	26.9	35.4	40.3	59.9
72.5°	17.1	24.4	29.3	28.1	28.1
75°	14.7	23.2	24.4	22.0	22.0
77.5°	12.2	20.8	19.6	18.3	17.1
80°	9.8	17.1	17.1	14.7	13.4
82.5°	8.6	13.4	13.4	13.4	11.0
85°	7.3	12.2	12.2	11.0	8.6
87.5°	4.9	9.8	11.0	9.8	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)