

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S124RDRP-S1195D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S124RDRP-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

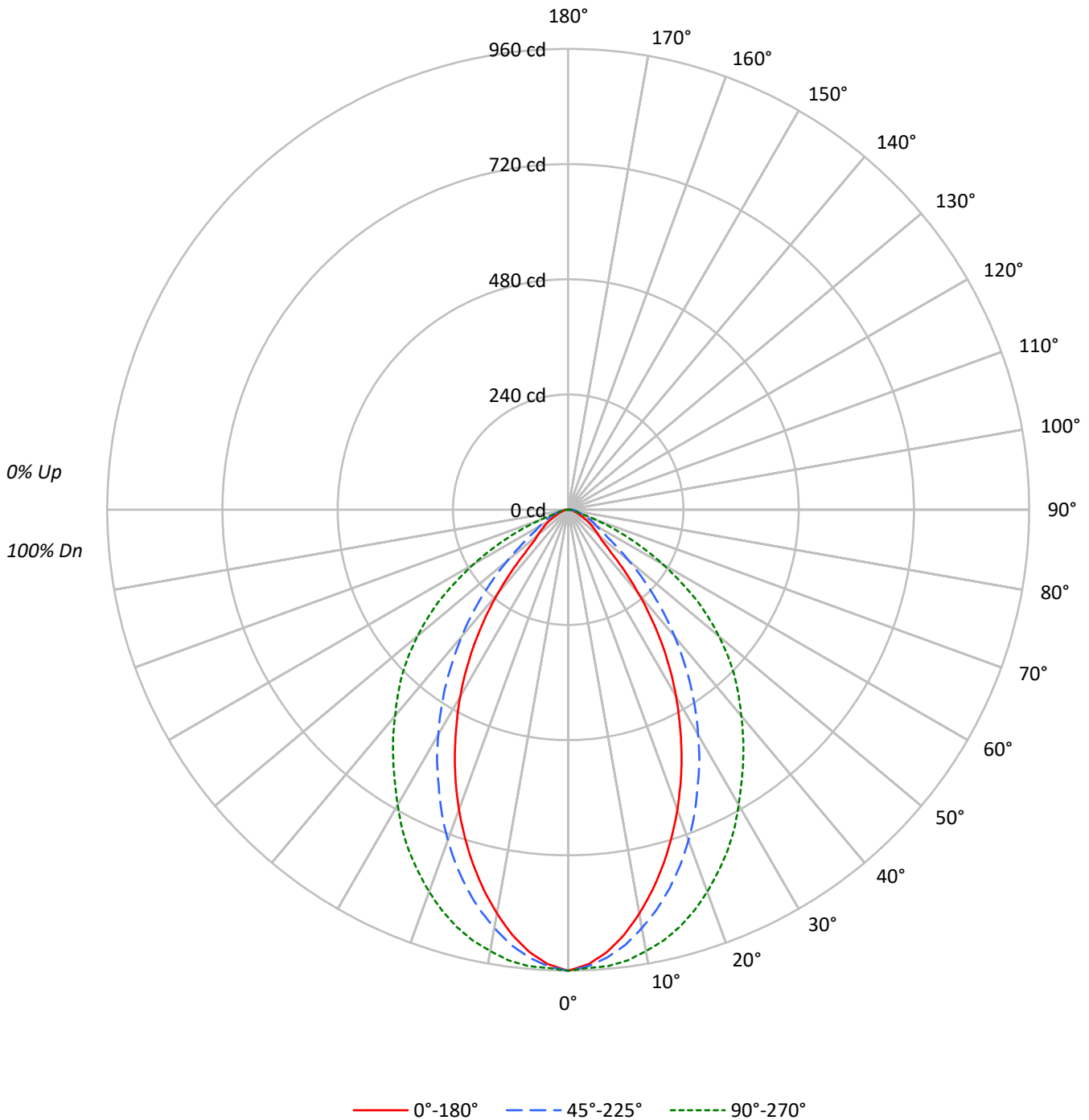
Lumens per Lamp: N/A
Luminaire Lumens: 1350.5 lumens
Efficiency: N/A
Efficacy: 32.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (A_{in}): 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	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

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	7.15	8.49	7.52	8.80	9.12	16.25	17.59	16.62	17.90	18.22
	3H	8.20	9.39	8.58	9.72	10.08	16.75	17.94	17.13	18.27	18.63
	4H	8.71	9.82	9.12	10.17	10.55	16.77	17.87	17.17	18.22	18.61
	6H	9.16	10.18	9.58	10.55	10.95	16.77	17.78	17.18	18.15	18.55
	8H	9.36	10.32	9.79	10.71	11.12	16.76	17.73	17.19	18.12	18.52
	12H	9.57	10.49	10.00	10.87	11.30	16.76	17.68	17.19	18.07	18.50
4H	2H	8.25	9.35	8.65	9.70	10.09	16.14	17.25	16.54	17.60	17.98
	3H	9.52	10.42	9.93	10.83	11.23	16.72	17.62	17.13	18.03	18.43
	4H	10.22	11.03	10.66	11.45	11.89	16.77	17.58	17.20	17.99	18.44
	6H	10.85	11.55	11.32	12.00	12.47	16.82	17.52	17.28	17.96	18.43
	8H	11.10	11.75	11.57	12.20	12.67	16.83	17.49	17.30	17.93	18.41
	12H	11.38	11.95	11.86	12.44	12.91	16.87	17.45	17.35	17.93	18.40
8H	4H	10.65	11.30	11.12	11.75	12.22	16.71	17.37	17.18	17.81	18.29
	6H	11.53	12.06	12.03	12.56	13.04	16.81	17.34	17.31	17.84	18.32
	8H	11.93	12.41	12.45	12.93	13.42	16.87	17.35	17.39	17.86	18.36
	12H	12.41	12.84	12.92	13.33	13.90	16.97	17.39	17.48	17.89	18.46
12H	4H	10.69	11.27	11.18	11.75	12.23	16.69	17.26	17.17	17.75	18.22
	6H	11.64	12.12	12.16	12.63	13.13	16.79	17.27	17.31	17.78	18.27
	8H	12.16	12.58	12.67	13.08	13.65	16.89	17.32	17.41	17.81	18.38