

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: P1060760

Luminaire Tested: S124RDRP-H1195D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060760
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: S124RDRP-H1195D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

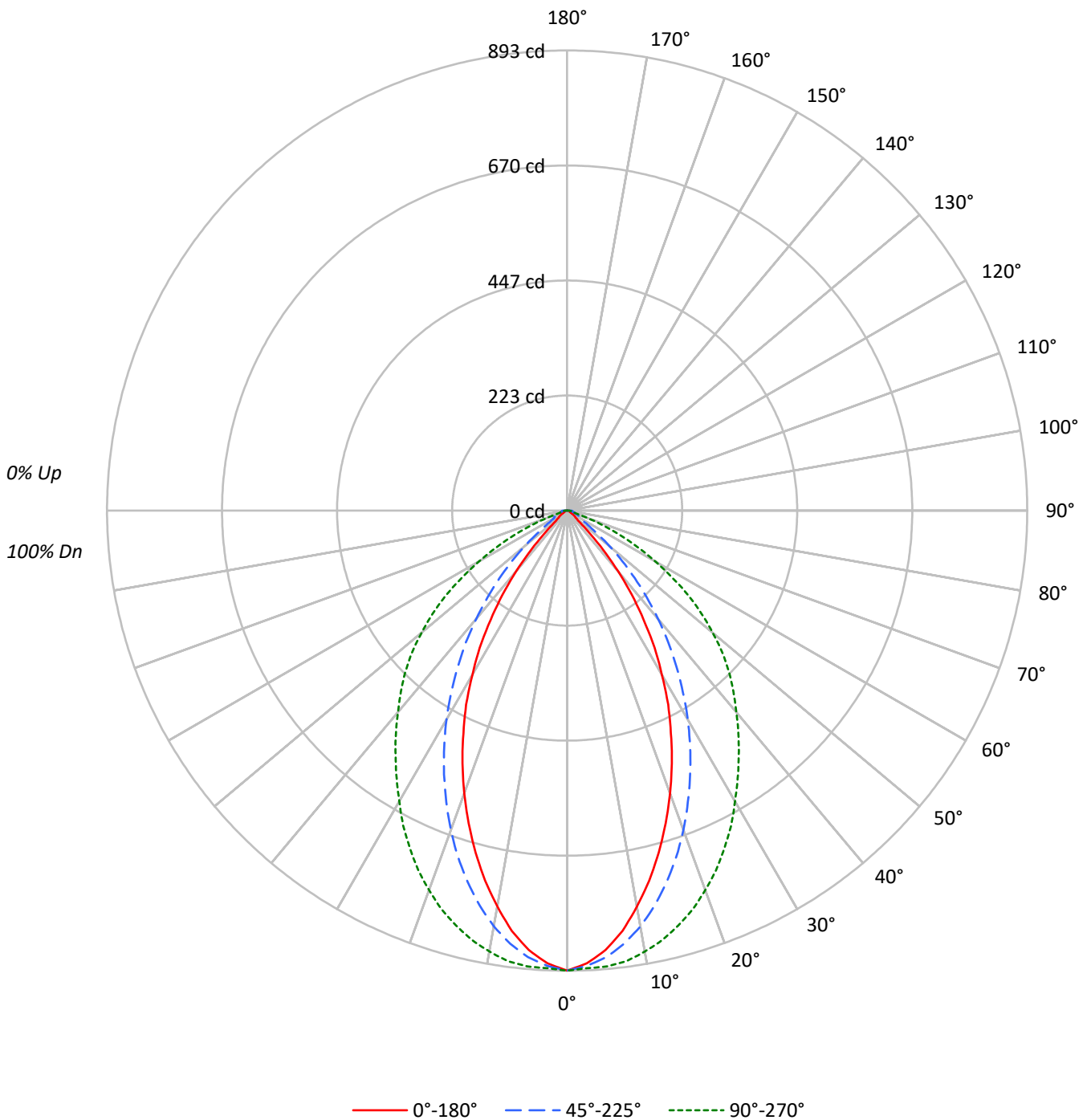
Lumens per Lamp: N/A
Luminaire Lumens: 1120.2 lumens
Efficiency: N/A
Efficacy: 30.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54					54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7686	7686	7686
5°	7398	7521	7674
10°	6823	7164	7598
15°	6124	6651	7431
20°	5352	6045	7183
25°	4526	5369	6863
30°	3656	4655	6477
35°	2722	3890	6102
40°	1728	3083	5741
45°	690	2260	5413
50°	301	1441	4942
55°	231	746	4313
60°	164	510	3420
65°	120	505	2337
70°	118	446	1073
75°	156	472	433
80°	233	526	471
85°	464	939	701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5413 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	7.3
10°-20°	210.8	18.8
20°-30°	266.2	23.8
30°-40°	244.5	21.8
40°-50°	166.7	14.9
50°-60°	90.4	8.1
60°-70°	38.4	3.4
70°-80°	13.3	1.2
80°-90°	8.4	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°	558.6	49.9
0°-40°	803.1	71.7
0°-60°	1060.2	94.6
0°-90°	1120.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1120.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	856	869	870	877	888	79
15°	687	709	746	799	834	191
25°	476	507	565	653	722	218
35°	259	293	370	486	580	161
45°	57	91	186	329	444	52
55°	15	17	50	181	287	14
65°	6	7	25	57	115	6
75°	5	13	14	13	13	5
85°	5	10	10	10	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	892.6	892.6	892.6	892.6	892.6
2.5°	879.6	890.2	884.3	886.7	889.0
5°	855.9	868.9	870.1	877.2	887.8
7.5°	822.8	838.2	847.7	865.4	881.9
10°	780.3	799.2	819.3	847.7	868.9
12.5°	735.3	755.4	785.0	825.2	853.6
15°	686.9	709.3	746.0	799.2	833.5
17.5°	636.0	660.9	704.6	767.3	811.0
20°	584.0	611.2	659.7	730.6	783.8
22.5°	530.8	559.2	612.4	692.8	755.4
25°	476.4	507.2	565.1	652.6	722.3
27.5°	424.4	452.8	516.6	612.4	689.2
30°	367.7	399.6	468.2	571.0	651.4
32.5°	315.7	346.4	418.5	528.5	615.9
35°	258.9	293.2	370.0	485.9	580.5
37.5°	205.7	238.8	322.7	445.7	546.2
40°	153.7	188.0	274.3	405.5	510.7
42.5°	102.9	139.5	228.2	364.1	477.6
45°	56.7	91.0	185.6	328.7	444.5
47.5°	29.6	49.7	145.4	293.2	409.0
50°	22.5	27.2	107.6	254.2	368.9
52.5°	18.9	20.1	73.3	215.2	328.7
55°	15.4	16.6	49.7	180.9	287.3
57.5°	11.8	13.0	35.5	147.8	241.2
60°	9.5	10.6	29.6	113.5	198.6
62.5°	7.1	8.3	28.4	83.9	156.1
65°	5.9	7.1	24.8	56.7	114.7
67.5°	4.7	7.1	21.3	36.6	76.8
70°	4.7	9.5	17.7	23.6	42.6
72.5°	4.7	10.6	15.4	15.4	15.4
75°	4.7	13.0	14.2	13.0	13.0
77.5°	4.7	11.8	11.8	11.8	11.8
80°	4.7	10.6	10.6	10.6	9.5
82.5°	4.7	9.5	10.6	10.6	8.3
85°	4.7	9.5	9.5	9.5	7.1
87.5°	3.5	9.5	9.5	9.5	4.7
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	0.00	0.00	0.00	0.00	0.00	15.53	16.80	15.89	17.12	17.43
	3H	0.00	0.17	0.00	0.50	0.86	15.88	17.01	16.26	17.34	17.71
	4H	0.42	1.46	0.82	1.82	2.20	15.85	16.90	16.25	17.25	17.63
	6H	1.78	2.74	2.19	3.11	3.50	15.82	16.79	16.24	17.16	17.55
	8H	2.46	3.37	2.89	3.76	4.16	15.81	16.73	16.25	17.12	17.52
	12H	3.26	4.13	3.69	4.51	4.94	15.81	16.68	16.25	17.07	17.50
4H	2H	1.22	2.27	1.62	2.62	3.00	15.33	16.38	15.73	16.73	17.12
	3H	2.64	3.50	3.06	3.90	4.31	15.73	16.58	16.14	16.99	17.39
	4H	4.09	4.86	4.53	5.28	5.72	15.71	16.47	16.14	16.89	17.33
	6H	5.33	5.99	5.80	6.44	6.90	15.72	16.38	16.19	16.83	17.30
	8H	5.90	6.52	6.37	6.96	7.43	15.73	16.35	16.20	16.80	17.27
	12H	6.58	7.12	7.06	7.60	8.08	15.77	16.31	16.26	16.80	17.27
8H	4H	5.17	5.78	5.64	6.23	6.70	15.61	16.22	16.08	16.67	17.14
	6H	6.77	7.27	7.28	7.77	8.25	15.66	16.16	16.16	16.66	17.14
	8H	7.61	8.06	8.13	8.58	9.07	15.71	16.16	16.24	16.68	17.17
	12H	8.58	8.98	9.10	9.47	10.05	15.83	16.23	16.35	16.72	17.30
12H	4H	5.35	5.90	5.84	6.38	6.86	15.57	16.11	16.05	16.59	17.07
	6H	7.12	7.57	7.64	8.09	8.58	15.62	16.08	16.15	16.59	17.08
	8H	8.14	8.54	8.66	9.04	9.61	15.73	16.13	16.24	16.62	17.19