

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: P1060357

Luminaire Tested: S124RDRP-S1195D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)
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-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

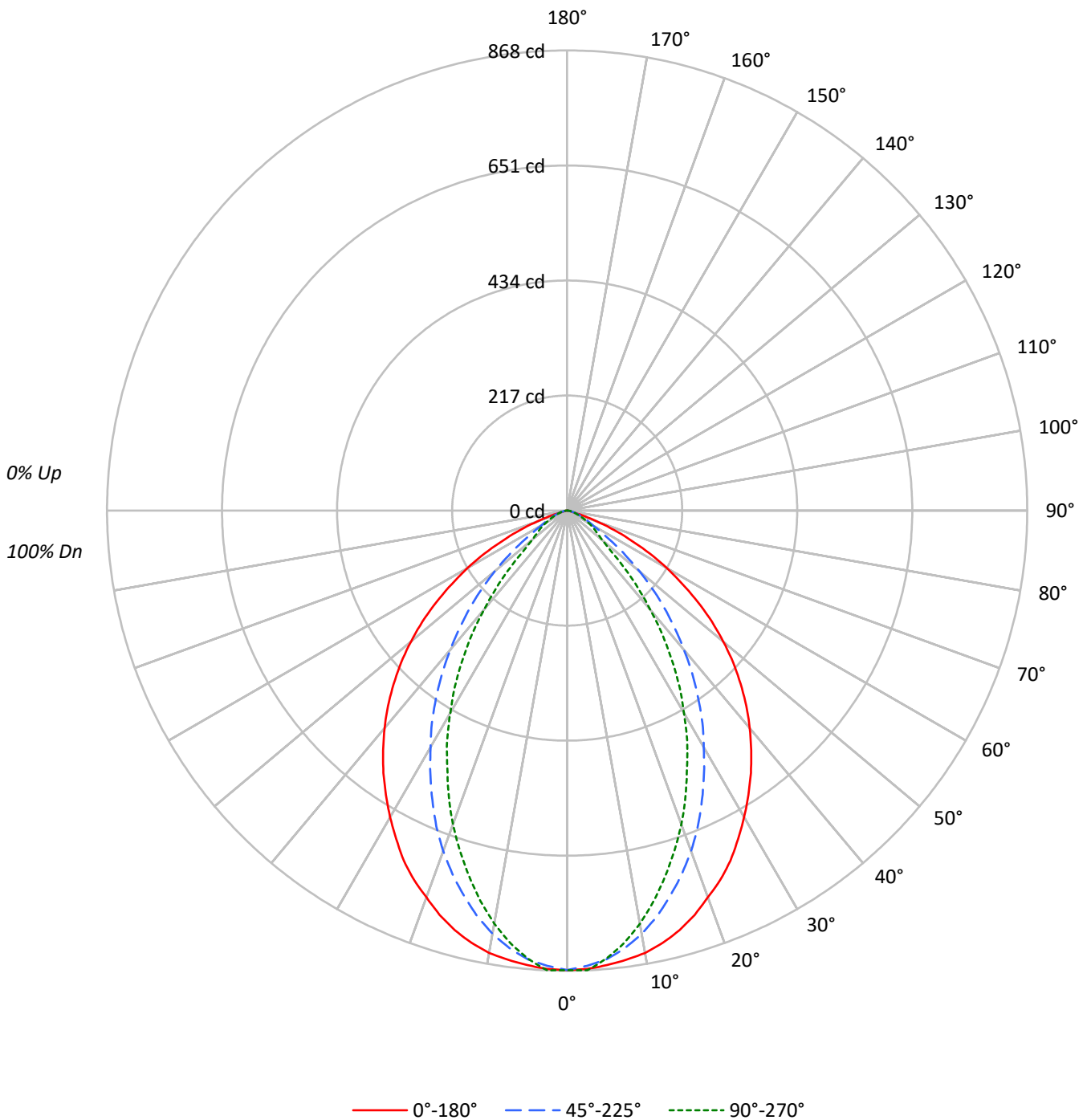
Lumens per Lamp: N/A
Luminaire Lumens: 1277.9 lumens
Efficiency: N/A
Efficacy: 30.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				
5	84	74	66	61	82	73	66	60	71	65	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	48	47				
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43				
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39				
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7464	7464	7464
5°	7440	7345	7334
10°	7408	7088	6917
15°	7303	6704	6367
20°	7115	6264	5772
25°	6925	5719	5080
30°	6640	5123	4382
35°	6353	4530	3619
40°	6024	3856	2745
45°	5635	3152	1844
50°	5152	2387	1145
55°	4526	1576	971
60°	3742	968	799
65°	2712	746	646
70°	1475	554	491
75°	326	406	446
80°	243	302	362
85°	237	237	366

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5635 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	6.3
10°-20°	213.3	16.7
20°-30°	282.6	22.1
30°-40°	280.4	21.9
40°-50°	215.8	16.9
50°-60°	128.6	10.1
60°-70°	58.5	4.6
70°-80°	15.1	1.2
80°-90°	3.4	0.3
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°	576.1	45.1
0°-40°	856.6	67.0
0°-60°	1201.0	94.0
0°-90°	1277.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1277.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	861	862	850	850	848	82
15°	819	798	752	726	714	230
25°	729	676	602	552	535	335
35°	604	529	431	365	344	377
45°	463	372	259	181	151	356
55°	302	215	105	66	65	269
65°	133	79	37	32	32	134
75°	10	12	12	13	13	20
85°	2	2	2	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.8	866.8	866.8	866.8	866.8
2.5°	865.5	866.8	859.4	865.5	868.0
5°	860.7	861.9	849.7	849.7	848.5
7.5°	854.6	852.1	832.6	825.3	822.8
10°	847.2	838.7	810.6	796.0	791.1
12.5°	835.0	821.6	783.8	763.0	754.5
15°	819.2	798.4	752.0	726.4	714.2
17.5°	799.6	774.0	719.0	686.1	672.7
20°	776.4	742.2	683.6	642.1	629.9
22.5°	754.5	711.7	644.6	597.0	583.5
25°	728.8	676.3	601.9	551.8	534.7
27.5°	698.3	642.1	559.1	507.9	490.8
30°	667.8	605.5	515.2	461.5	440.7
32.5°	636.0	567.7	474.9	413.8	394.3
35°	604.3	528.6	430.9	365.0	344.3
37.5°	570.1	489.5	387.0	318.6	295.4
40°	535.9	451.7	343.0	273.5	244.2
42.5°	500.5	412.6	300.3	227.1	197.8
45°	462.7	372.3	258.8	180.7	151.4
47.5°	424.8	334.5	217.3	135.5	108.7
50°	384.6	294.2	178.2	98.9	85.5
52.5°	344.3	255.1	139.2	76.9	73.2
55°	301.5	214.9	105.0	65.9	64.7
57.5°	257.6	178.2	75.7	57.4	54.9
60°	217.3	144.1	56.2	48.8	46.4
62.5°	175.8	108.7	46.4	40.3	37.8
65°	133.1	79.4	36.6	31.7	31.7
67.5°	96.4	53.7	29.3	25.6	24.4
70°	58.6	33.0	22.0	20.8	19.5
72.5°	29.3	19.5	17.1	15.9	15.9
75°	9.8	12.2	12.2	13.4	13.4
77.5°	7.3	8.5	8.5	9.8	9.8
80°	4.9	6.1	6.1	7.3	7.3
82.5°	3.7	3.7	4.9	4.9	6.1
85°	2.4	2.4	2.4	3.7	3.7
87.5°	1.2	1.2	1.2	2.4	2.4
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	16.10	17.44	16.47	17.75	18.06	7.65	8.99	8.02	9.30	9.62
	3H	16.61	17.79	16.99	18.12	18.49	8.47	9.65	8.85	9.98	10.34
	4H	16.58	17.68	16.98	18.03	18.41	8.75	9.85	9.15	10.20	10.58
	6H	16.51	17.52	16.93	17.89	18.28	8.92	9.93	9.34	10.30	10.69
	8H	16.47	17.43	16.90	17.82	18.22	8.99	9.94	9.42	10.33	10.74
	12H	16.44	17.35	16.87	17.73	18.16	9.03	9.95	9.47	10.33	10.76
4H	2H	15.94	17.04	16.35	17.39	17.78	8.09	9.19	8.50	9.54	9.93
	3H	16.50	17.39	16.91	17.80	18.20	9.06	9.95	9.47	10.36	10.76
	4H	16.47	17.26	16.90	17.68	18.13	9.42	10.22	9.86	10.64	11.08
	6H	16.41	17.10	16.88	17.55	18.01	9.67	10.36	10.14	10.80	11.27
	8H	16.37	17.01	16.84	17.45	17.93	9.76	10.40	10.23	10.85	11.32
	12H	16.33	16.89	16.82	17.38	17.85	9.84	10.40	10.32	10.89	11.36
8H	4H	16.36	17.00	16.83	17.44	17.91	9.51	10.15	9.98	10.60	11.07
	6H	16.29	16.82	16.80	17.31	17.79	9.82	10.34	10.32	10.84	11.32
	8H	16.25	16.72	16.77	17.23	17.72	9.95	10.42	10.47	10.94	11.43
	12H	16.22	16.63	16.73	17.12	17.70	10.09	10.50	10.60	11.00	11.57
12H	4H	16.31	16.88	16.80	17.36	17.84	9.48	10.05	9.97	10.53	11.00
	6H	16.24	16.71	16.76	17.22	17.72	9.80	10.27	10.32	10.78	11.28
	8H	16.21	16.63	16.73	17.12	17.69	9.97	10.38	10.49	10.88	11.45