

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: P1059064

Luminaire Tested: S123RDRP-S1000D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-28)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D935-X4F0-XX-UDD-WVL-B
Description: DEFINE 3 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

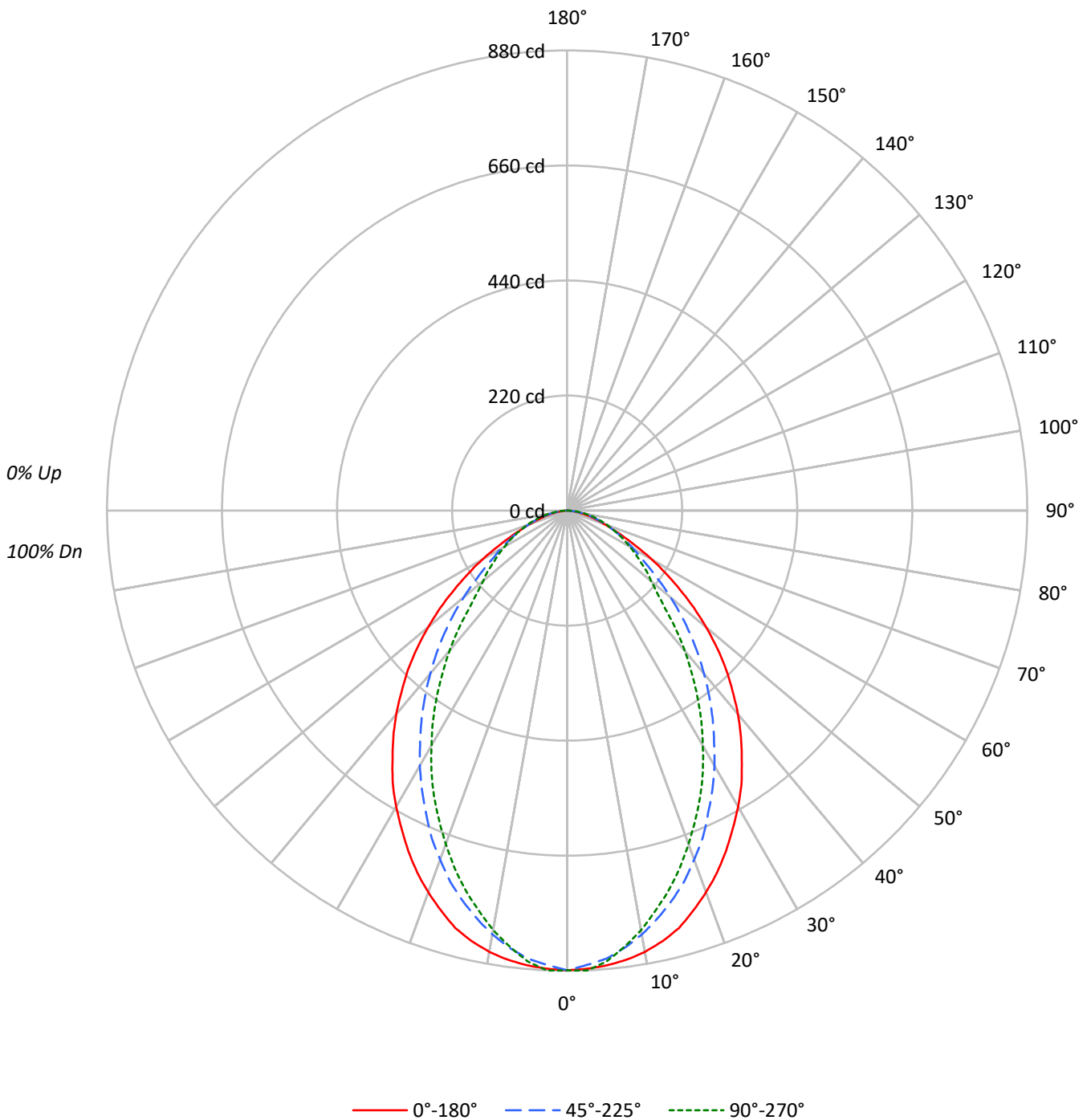
Lumens per Lamp: N/A
Luminaire Lumens: 1537.7 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.95 / 1.09
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	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	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88																												
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																												
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66																												
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58																												
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52																												
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47																												
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42																												
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38																												
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35																												
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10324	10324	10324
5°	10288	10139	10202
10°	10219	9815	9714
15°	10046	9391	9133
20°	9706	8873	8477
25°	9310	8270	7804
30°	8869	7636	7034
35°	8347	6952	6226
40°	7792	6236	5362
45°	7142	5510	4404
50°	6332	4730	3822
55°	5386	3959	3505
60°	4392	3450	3250
65°	3348	3054	3023
70°	2613	2723	2829
75°	2110	2445	2636
80°	1569	2002	2428
85°	849	1280	2142

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7142 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	5.3
10°-20°	219.6	14.3
20°-30°	298.5	19.4
30°-40°	309.4	20.1
40°-50°	261.0	17.0
50°-60°	185.2	12.0
60°-70°	113.2	7.4
70°-80°	56.3	3.7
80°-90°	12.8	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°	599.7	39.0
0°-40°	909.1	59.1
0°-60°	1355.3	88.1
0°-90°	1537.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	873	873	860	866	866	83
15°	826	810	772	759	751	232
25°	719	687	638	615	602	330
35°	582	538	485	451	434	364
45°	430	385	332	286	265	330
55°	263	236	193	176	171	236
65°	120	116	110	110	109	123
75°	46	50	54	56	58	50
85°	6	7	10	14	16	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.2	879.2	879.2	879.2	879.2
2.5°	877.1	878.1	869.7	879.2	880.2
5°	872.8	872.8	860.2	865.5	865.5
7.5°	866.5	864.4	843.3	843.3	841.1
10°	857.0	850.7	823.2	817.9	814.7
12.5°	843.3	832.7	798.9	789.4	783.0
15°	826.4	810.5	772.5	758.7	751.3
17.5°	802.0	786.2	743.9	724.9	716.5
20°	776.7	753.4	710.1	691.1	678.4
22.5°	749.2	719.6	677.4	654.1	640.4
25°	718.6	686.9	638.3	615.0	602.3
27.5°	685.8	650.9	601.3	574.9	562.2
30°	654.1	614.0	563.2	533.6	518.8
32.5°	620.3	574.9	523.1	492.4	477.6
35°	582.3	537.9	485.0	451.2	434.3
37.5°	546.3	500.9	445.9	410.0	391.0
40°	508.3	462.8	406.8	369.9	349.8
42.5°	468.1	424.8	369.9	326.5	307.5
45°	430.1	384.6	331.8	286.4	265.2
47.5°	388.9	346.6	294.8	248.3	233.5
50°	346.6	307.5	258.9	216.6	209.2
52.5°	305.4	272.6	223.0	195.5	192.3
55°	263.1	235.6	193.4	176.5	171.2
57.5°	224.0	203.9	165.9	157.5	155.3
60°	187.0	170.1	146.9	141.6	138.4
62.5°	151.1	141.6	127.9	125.7	123.6
65°	120.5	116.2	109.9	109.9	108.8
67.5°	95.1	95.1	94.0	96.2	95.1
70°	76.1	77.1	79.3	81.4	82.4
72.5°	60.2	63.4	65.5	68.7	69.7
75°	46.5	49.7	53.9	56.0	58.1
77.5°	33.8	37.0	41.2	44.4	46.5
80°	23.2	25.4	29.6	33.8	35.9
82.5°	14.8	15.9	19.0	23.2	25.4
85°	6.3	7.4	9.5	13.7	15.9
87.5°	0.0	0.0	1.1	4.2	7.4
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	16.92	18.37	17.28	18.68	19.00	15.02	16.47	15.38	16.78	17.10
	3H	17.82	19.11	18.19	19.44	19.80	16.59	17.89	16.97	18.21	18.58
	4H	18.10	19.31	18.50	19.66	20.04	17.19	18.40	17.59	18.75	19.13
	6H	18.25	19.37	18.66	19.73	20.13	17.64	18.75	18.05	19.12	19.51
	8H	18.27	19.33	18.70	19.72	20.13	17.79	18.85	18.21	19.24	19.64
	12H	18.26	19.28	18.70	19.66	20.09	17.88	18.90	18.32	19.28	19.71
4H	2H	17.16	18.37	17.56	18.72	19.10	15.56	16.77	15.96	17.12	17.50
	3H	18.28	19.28	18.69	19.68	20.08	17.33	18.33	17.74	18.73	19.14
	4H	18.67	19.56	19.10	19.98	20.42	18.04	18.94	18.48	19.36	19.80
	6H	18.91	19.69	19.37	20.13	20.59	18.62	19.39	19.07	19.84	20.30
	8H	18.95	19.68	19.42	20.12	20.59	18.81	19.53	19.27	19.98	20.45
	12H	18.96	19.61	19.44	20.09	20.56	18.95	19.59	19.43	20.07	20.55
8H	4H	18.82	19.55	19.29	20.00	20.47	18.25	18.98	18.72	19.43	19.89
	6H	19.14	19.74	19.64	20.23	20.71	18.93	19.53	19.43	20.02	20.50
	8H	19.21	19.75	19.73	20.26	20.75	19.19	19.72	19.70	20.23	20.72
	12H	19.25	19.72	19.76	20.22	20.78	19.39	19.87	19.91	20.36	20.93
12H	4H	18.83	19.48	19.31	19.96	20.43	18.25	18.90	18.74	19.38	19.85
	6H	19.15	19.69	19.67	20.20	20.69	18.94	19.48	19.45	19.99	20.48
	8H	19.27	19.74	19.78	20.23	20.80	19.24	19.71	19.75	20.21	20.78