

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



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: P1062142

Luminaire Tested: S125RDR-H610D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H610D935-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

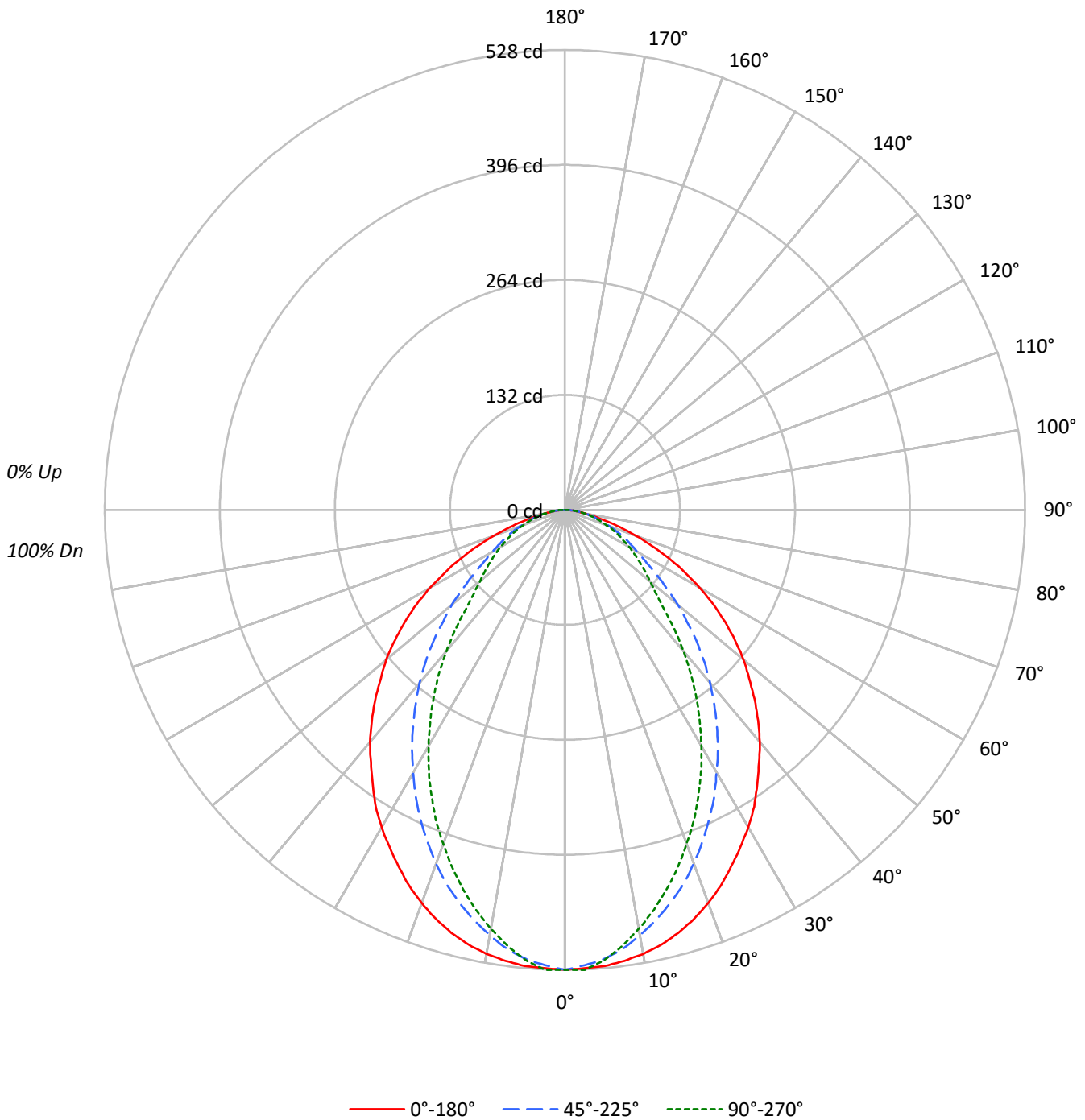
Lumens per Lamp: N/A
Luminaire Lumens: 1000.1 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																												
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75																												
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65																												
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57																												
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50																												
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45																												
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40																												
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36																												
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33																												
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3635	3635	3635
5°	3633	3577	3586
10°	3619	3466	3415
15°	3583	3330	3215
20°	3520	3167	2990
25°	3432	2979	2752
30°	3346	2767	2488
35°	3233	2554	2206
40°	3128	2329	1901
45°	2997	2082	1557
50°	2867	1805	1364
55°	2690	1507	1259
60°	2455	1318	1176
65°	2147	1204	1093
70°	1743	1085	1015
75°	1250	992	944
80°	864	888	888
85°	632	766	814

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2997 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	4.9
10°-20°	132.8	13.3
20°-30°	183.5	18.3
30°-40°	195.5	19.5
40°-50°	171.7	17.2
50°-60°	130.2	13.0
60°-70°	84.5	8.5
70°-80°	41.9	4.2
80°-90°	11.0	1.1
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°	365.4	36.5
0°-40°	560.8	56.1
0°-60°	862.7	86.3
0°-90°	1000.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1000.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	526	524	518	519	519	50
15°	503	491	467	456	451	142
25°	452	427	392	372	362	208
35°	385	349	304	276	262	241
45°	308	265	214	175	160	237
55°	224	180	126	108	105	200
65°	132	98	74	68	67	130
75°	47	41	37	36	36	52
85°	8	9	10	10	10	10
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	528.0	528.0	528.0	528.0	528.0
2.5°	526.8	528.0	523.4	527.4	528.5
5°	525.7	524.5	517.6	519.4	518.8
7.5°	522.2	519.9	508.5	507.3	505.0
10°	517.6	511.9	495.8	491.8	488.4
12.5°	511.3	502.2	482.7	474.6	470.6
15°	502.7	491.3	467.2	456.3	451.1
17.5°	492.4	476.4	451.1	436.2	430.5
20°	480.4	461.5	432.2	415.0	408.1
22.5°	467.2	444.8	412.2	393.8	386.4
25°	451.7	427.1	392.1	372.0	362.3
27.5°	436.2	408.7	370.9	348.5	338.2
30°	420.8	389.2	348.0	323.9	313.0
32.5°	404.1	369.2	326.7	300.4	287.8
35°	384.6	349.1	303.8	276.3	262.5
37.5°	365.7	327.9	281.5	250.5	237.3
40°	348.0	307.8	259.1	225.3	211.5
42.5°	327.9	286.6	236.7	201.2	185.7
45°	307.8	264.8	213.8	175.4	159.9
47.5°	286.6	244.2	189.7	151.9	141.6
50°	267.7	223.0	168.5	134.1	127.3
52.5°	245.9	202.4	146.7	120.4	115.8
55°	224.1	180.0	125.5	108.3	104.9
57.5°	201.8	159.9	108.9	98.0	94.6
60°	178.3	139.3	95.7	87.1	85.4
62.5°	154.8	118.1	84.3	78.0	75.7
65°	131.8	98.0	73.9	68.2	67.1
67.5°	108.3	79.7	63.6	59.6	59.0
70°	86.6	64.8	53.9	51.6	50.4
72.5°	66.5	51.6	45.3	43.6	43.0
75°	47.0	41.3	37.3	36.1	35.5
77.5°	31.5	31.5	29.8	28.7	29.2
80°	21.8	22.9	22.4	22.4	22.4
82.5°	14.3	15.5	16.1	16.1	16.1
85°	8.0	9.2	9.7	9.7	10.3
87.5°	2.9	3.4	4.0	4.6	4.6
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	15.04	16.53	15.40	16.84	17.16	11.28	12.77	11.64	13.08	13.40
	3H	16.35	17.68	16.73	18.01	18.37	12.86	14.20	13.24	14.52	14.89
	4H	16.72	17.97	17.12	18.32	18.70	13.46	14.72	13.86	15.06	15.44
	6H	16.89	18.05	17.31	18.42	18.81	13.93	15.09	14.35	15.46	15.85
	8H	16.93	18.03	17.36	18.42	18.82	14.10	15.20	14.52	15.59	15.99
	12H	16.94	18.00	17.37	18.38	18.81	14.21	15.26	14.64	15.64	16.07
4H	2H	15.15	16.40	15.55	16.75	17.13	11.94	13.19	12.34	13.54	13.92
	3H	16.64	17.67	17.05	18.07	18.48	13.72	14.76	14.13	15.16	15.56
	4H	17.11	18.05	17.54	18.46	18.90	14.44	15.37	14.87	15.79	16.23
	6H	17.40	18.21	17.86	18.65	19.11	15.03	15.84	15.49	16.28	16.74
	8H	17.47	18.22	17.93	18.67	19.14	15.23	15.99	15.70	16.44	16.90
	12H	17.51	18.18	17.99	18.66	19.13	15.39	16.06	15.87	16.54	17.02
8H	4H	17.19	17.95	17.66	18.40	18.86	14.75	15.51	15.21	15.95	16.42
	6H	17.56	18.18	18.06	18.67	19.15	15.46	16.08	15.96	16.57	17.05
	8H	17.67	18.23	18.19	18.75	19.23	15.74	16.30	16.25	16.81	17.30
	12H	17.76	18.26	18.27	18.75	19.31	15.97	16.46	16.48	16.96	17.52
12H	4H	17.19	17.86	17.67	18.34	18.82	14.78	15.45	15.26	15.93	16.40
	6H	17.56	18.12	18.08	18.63	19.12	15.51	16.07	16.02	16.58	17.07
	8H	17.72	18.22	18.23	18.71	19.27	15.85	16.34	16.36	16.84	17.40