

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: P1062136

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H610D935-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK 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

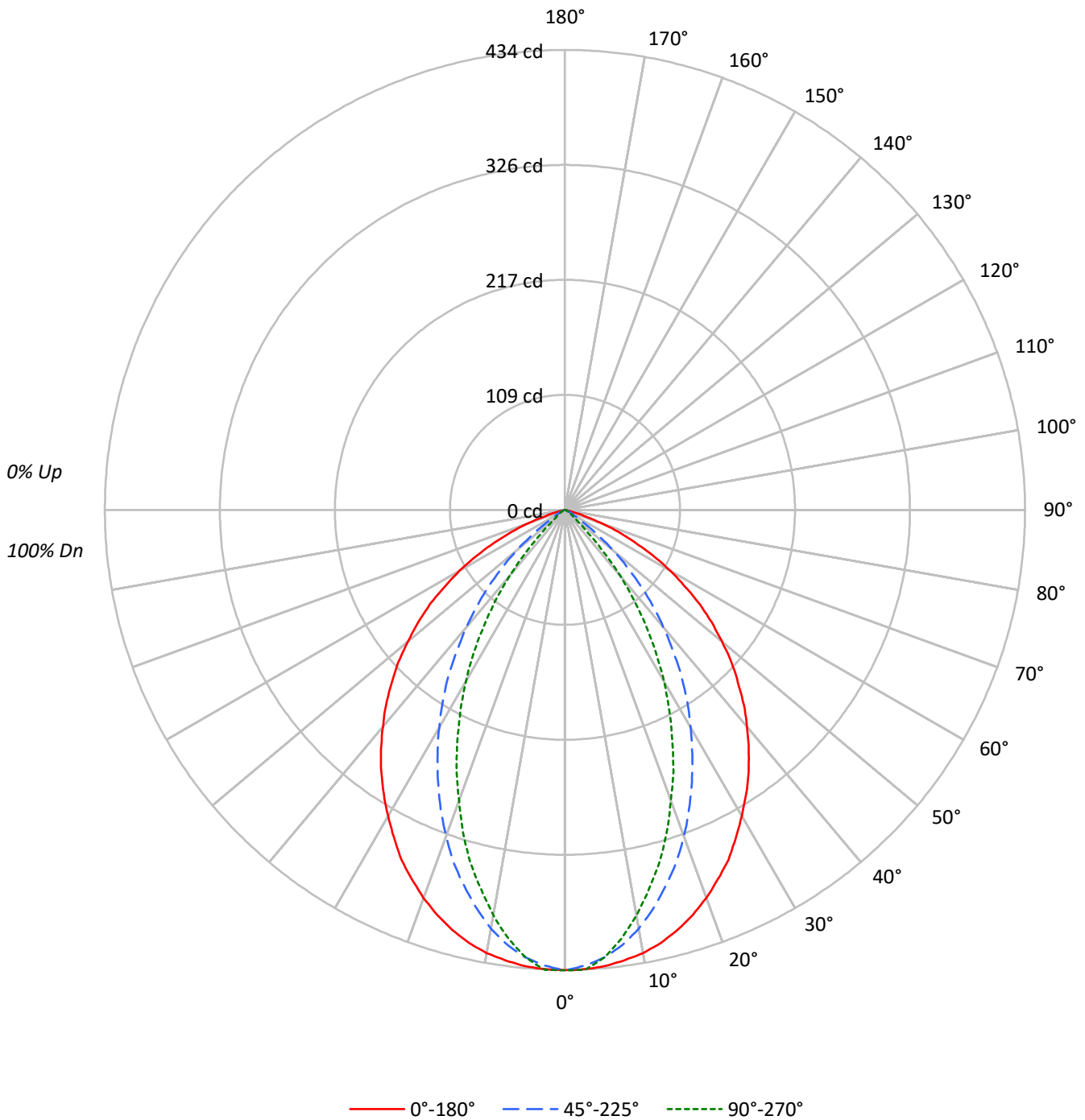
Lumens per Lamp: N/A
Luminaire Lumens: 561.3 lumens
Efficiency: N/A
Efficacy: 32.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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					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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91				
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82				
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66				
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54				
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50				
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46				
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2992	2992	2992
5°	2987	2932	2932
10°	2970	2806	2717
15°	2925	2619	2456
20°	2856	2403	2138
25°	2770	2151	1820
30°	2652	1887	1486
35°	2539	1610	1113
40°	2401	1299	722
45°	2249	982	313
50°	2069	627	117
55°	1864	275	83
60°	1578	118	55
65°	1196	75	28
70°	727	34	12
75°	152	16	16
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2249 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	7.1
10°-20°	104.4	18.6
20°-30°	134.1	23.9
30°-40°	126.2	22.5
40°-50°	88.2	15.7
50°-60°	47.1	8.4
60°-70°	18.8	3.3
70°-80°	2.4	0.4
80°-90°	0.0	0.0
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°	278.5	49.6
0°-40°	404.7	72.1
0°-60°	540.1	96.2
0°-90°	561.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	561.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	434	434	434	434	434	
5°	432	431	424	425	424	41
15°	410	397	367	350	344	115
25°	365	332	283	252	240	167
35°	302	254	192	148	132	189
45°	231	173	101	49	32	178
55°	155	95	23	8	7	138
65°	73	29	5	2	2	73
75°	6	2	1	1	1	11
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	434.5	434.5	434.5	434.5	434.5
2.5°	433.9	434.5	430.5	433.9	434.5
5°	432.2	431.1	424.2	425.3	424.2
7.5°	428.8	425.9	414.4	410.4	408.1
10°	424.8	418.4	401.3	392.7	388.6
12.5°	418.4	409.3	385.2	372.0	366.3
15°	410.4	397.2	367.4	350.2	344.5
17.5°	400.7	383.5	349.1	327.9	319.3
20°	389.8	366.9	327.9	302.7	291.8
22.5°	377.2	350.8	306.1	278.0	267.1
25°	364.6	332.5	283.2	252.2	239.6
27.5°	349.1	313.5	260.2	227.0	213.2
30°	333.6	294.6	237.3	201.2	186.9
32.5°	318.1	274.6	214.4	174.3	159.9
35°	302.1	253.9	191.5	147.9	132.4
37.5°	284.9	233.3	166.8	122.7	106.6
40°	267.1	213.2	144.5	98.0	80.3
42.5°	249.9	193.2	122.1	73.9	54.5
45°	231.0	173.1	100.9	48.7	32.1
47.5°	213.2	153.6	79.1	28.1	16.6
50°	193.2	133.6	58.5	14.9	10.9
52.5°	174.3	114.1	39.0	9.7	8.6
55°	155.3	95.2	22.9	8.0	6.9
57.5°	133.6	76.8	12.6	6.3	5.2
60°	114.6	60.2	8.6	4.6	4.0
62.5°	92.9	44.1	6.3	3.4	2.9
65°	73.4	29.2	4.6	2.3	1.7
67.5°	54.5	17.2	2.9	1.1	1.1
70°	36.1	9.2	1.7	0.6	0.6
72.5°	18.9	4.0	1.1	0.6	0.6
75°	5.7	1.7	0.6	0.6	0.6
77.5°	0.0	0.6	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	12.75	14.01	13.12	14.33	14.64	0.00	0.00	0.00	0.00	0.00
	3H	13.34	14.45	13.72	14.78	15.14	0.00	0.00	0.00	0.00	0.00
	4H	13.30	14.33	13.70	14.68	15.07	0.00	0.00	0.00	0.00	0.00
	6H	13.21	14.16	13.63	14.53	14.93	0.00	0.00	0.00	0.00	0.00
	8H	13.17	14.06	13.60	14.45	14.86	0.00	0.00	0.00	0.00	0.00
	12H	13.12	13.97	13.56	14.36	14.79	0.00	0.00	0.00	0.00	0.00
4H	2H	12.52	13.56	12.93	13.91	14.29	0.00	0.00	0.00	0.00	0.00
	3H	13.12	13.95	13.53	14.36	14.76	0.00	0.00	0.00	0.00	0.00
	4H	13.07	13.81	13.50	14.23	14.67	0.00	0.00	0.00	0.00	0.00
	6H	12.98	13.62	13.44	14.06	14.53	0.00	0.00	0.00	0.00	0.00
	8H	12.92	13.51	13.39	13.96	14.43	0.00	0.00	0.00	0.00	0.00
	12H	12.87	13.39	13.36	13.87	14.35	0.00	0.00	0.00	0.00	0.00
8H	4H	12.92	13.51	13.39	13.96	14.43	0.00	0.00	0.00	0.00	0.00
	6H	12.81	13.29	13.32	13.79	14.27	0.00	0.00	0.00	0.00	0.00
	8H	12.75	13.18	13.27	13.69	14.19	0.00	0.00	0.00	0.00	0.00
	12H	12.70	13.08	13.21	13.57	14.15	0.00	0.00	0.00	0.00	0.00
12H	4H	12.87	13.39	13.36	13.87	14.35	0.00	0.00	0.00	0.00	0.00
	6H	12.75	13.18	13.27	13.69	14.19	0.00	0.00	0.00	0.00	0.00
	8H	12.70	13.08	13.21	13.57	14.15	0.00	0.00	0.00	0.00	0.00