

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: P1061687

Luminaire Tested: S125RDRP-S610D835-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D835-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

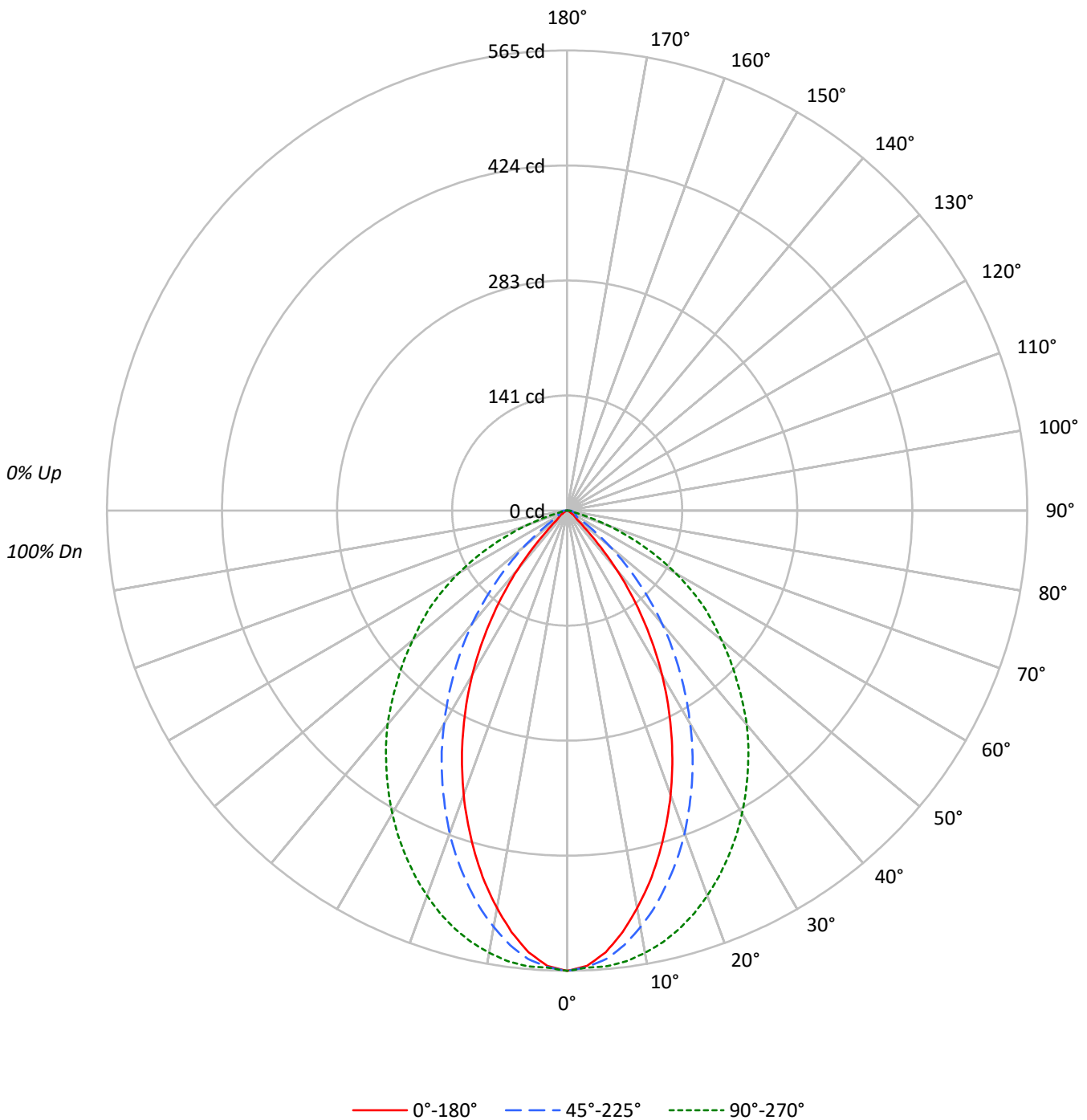
Lumens per Lamp: N/A
Luminaire Lumens: 726.8 lumens
Efficiency: N/A
Efficacy: 37.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49					49			
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42					42			
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3891	3891	3891
5°	3761	3819	3882
10°	3464	3630	3854
15°	3111	3378	3790
20°	2723	3090	3687
25°	2300	2760	3558
30°	1853	2401	3414
35°	1363	2024	3252
40°	850	1632	3084
45°	318	1193	2867
50°	149	746	2647
55°	108	309	2448
60°	77	162	2118
65°	46	192	1678
70°	42	223	1065
75°	56	223	333
80°	83	278	250
85°	166	442	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2867 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	7.1
10°-20°	134.2	18.5
20°-30°	170.9	23.5
30°-40°	159.1	21.9
40°-50°	109.0	15.0
50°-60°	60.0	8.3
60°-70°	28.4	3.9
70°-80°	8.9	1.2
80°-90°	4.6	0.6
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°	356.9	49.1
0°-40°	515.9	71.0
0°-60°	684.9	94.2
0°-90°	726.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	726.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	565	565	565	565	565	
5°	544	551	553	557	562	50
15°	436	450	474	509	532	122
25°	303	322	363	422	468	138
35°	162	185	241	320	387	101
45°	33	55	122	217	294	31
55°	9	10	26	121	204	8
65°	3	4	12	44	103	3
75°	2	4	8	9	12	2
85°	2	5	6	5	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	565.1	565.1	565.1	565.1	565.1
2.5°	559.5	565.1	560.9	560.9	561.6
5°	544.2	551.2	552.6	556.8	561.6
7.5°	522.0	531.0	538.0	549.8	558.1
10°	495.5	506.6	519.2	538.7	551.2
12.5°	467.7	479.5	498.3	525.4	542.8
15°	436.4	450.3	473.9	509.4	531.7
17.5°	404.3	419.7	448.9	490.6	518.5
20°	371.6	387.6	421.7	468.4	503.2
22.5°	337.5	354.9	392.5	445.4	486.5
25°	302.7	321.5	363.3	421.7	468.4
27.5°	267.9	287.4	333.4	397.4	449.6
30°	233.1	253.3	302.0	372.3	429.4
32.5°	197.6	219.9	271.4	347.3	408.5
35°	162.2	185.1	240.8	320.1	386.9
37.5°	127.4	151.0	210.9	294.4	365.4
40°	94.6	118.3	181.6	268.6	343.1
42.5°	61.2	86.3	151.0	242.2	318.7
45°	32.7	55.0	122.5	217.1	294.4
47.5°	17.4	29.2	95.3	192.1	271.4
50°	13.9	16.0	69.6	167.0	247.1
52.5°	11.1	12.5	44.5	141.3	225.5
55°	9.0	10.4	25.7	121.1	203.9
57.5°	7.0	8.4	14.6	100.9	178.9
60°	5.6	6.3	11.8	80.7	153.8
62.5°	3.5	4.9	11.8	62.6	128.7
65°	2.8	3.5	11.8	44.5	103.0
67.5°	2.8	2.8	11.8	29.2	77.2
70°	2.1	2.1	11.1	18.8	52.9
72.5°	2.1	2.1	9.7	12.5	30.6
75°	2.1	3.5	8.4	9.0	12.5
77.5°	2.1	5.6	7.7	7.7	7.0
80°	2.1	5.6	7.0	6.3	6.3
82.5°	2.1	5.6	5.6	5.6	4.9
85°	2.1	4.9	5.6	4.9	4.2
87.5°	2.1	4.9	4.9	4.9	2.8
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	13.77	15.05	14.13	15.36	15.68
	3H	0.00	0.00	0.00	0.00	0.00	14.55	15.69	14.93	16.02	16.38
	4H	0.00	0.00	0.00	0.00	0.00	14.58	15.64	14.98	15.99	16.37
	6H	0.00	0.00	0.00	0.00	0.00	14.53	15.51	14.95	15.88	16.27
	8H	0.00	0.00	0.00	0.00	0.00	14.51	15.43	14.94	15.82	16.23
	12H	0.00	0.00	0.00	0.18	0.61	14.49	15.37	14.93	15.75	16.18
4H	2H	0.00	0.00	0.00	0.00	0.00	13.55	14.61	13.95	14.96	15.34
	3H	0.00	0.00	0.00	0.00	0.10	14.38	15.24	14.79	15.64	16.05
	4H	0.00	0.00	0.00	0.22	0.66	14.41	15.18	14.84	15.60	16.04
	6H	0.54	1.20	1.00	1.65	2.12	14.40	15.06	14.86	15.51	15.98
	8H	1.28	1.90	1.75	2.35	2.82	14.38	15.00	14.85	15.45	15.92
	12H	2.03	2.57	2.51	3.06	3.53	14.38	14.93	14.87	15.41	15.89
8H	4H	1.07	1.69	1.54	2.14	2.61	14.30	14.92	14.77	15.36	15.83
	6H	2.83	3.33	3.33	3.83	4.31	14.30	14.80	14.80	15.30	15.78
	8H	3.78	4.24	4.31	4.75	5.25	14.30	14.76	14.83	15.28	15.77
	12H	4.72	5.12	5.24	5.62	6.19	14.35	14.75	14.87	15.25	15.82
12H	4H	1.38	1.92	1.86	2.41	2.88	14.25	14.80	14.74	15.28	15.76
	6H	3.29	3.74	3.81	4.26	4.75	14.25	14.71	14.78	15.22	15.72
	8H	4.42	4.82	4.94	5.32	5.89	14.29	14.69	14.81	15.19	15.76