

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: P1061687

Luminaire Tested: S125RDR-S610D835-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S125RDR-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

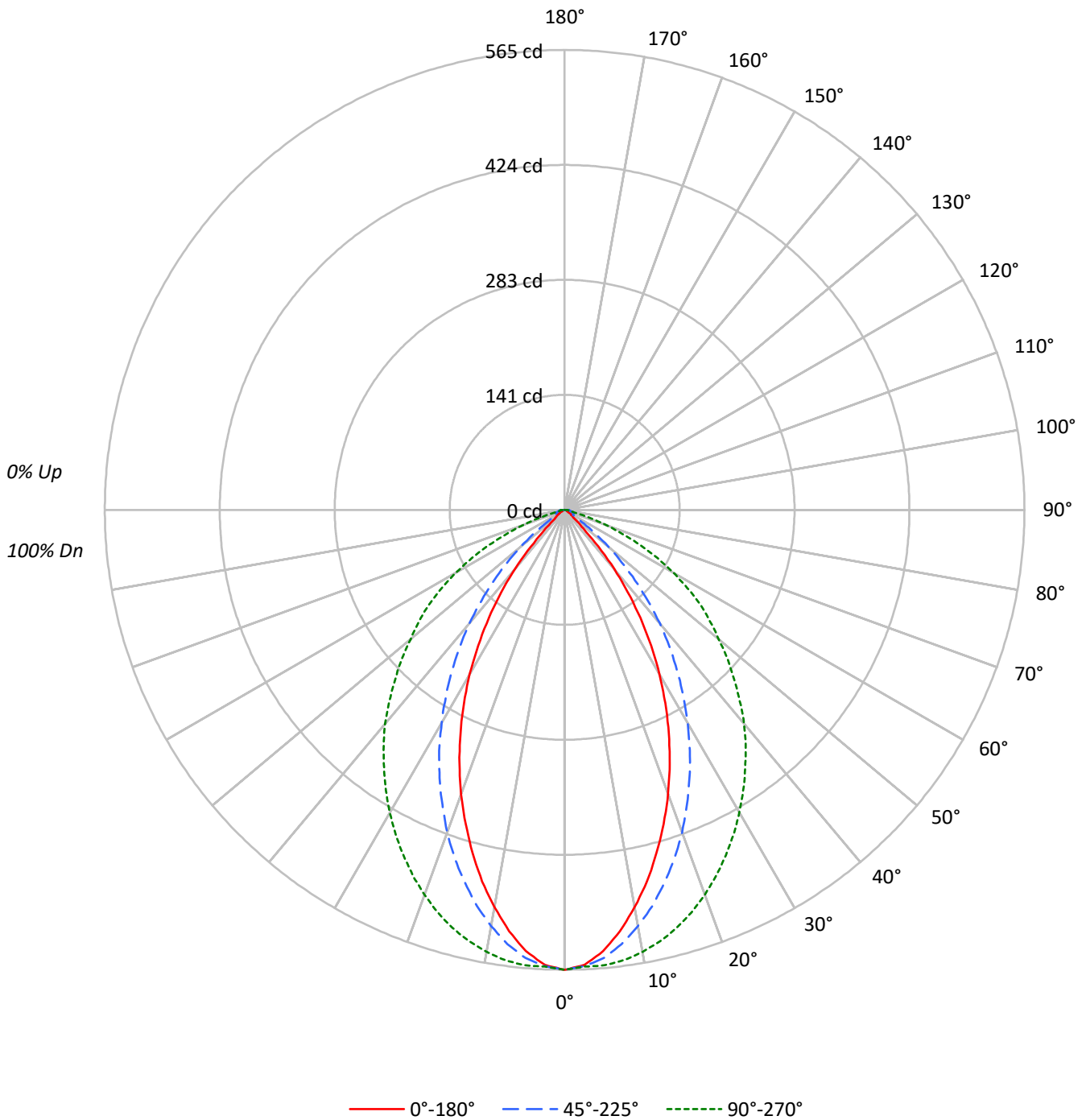
Lumens per Lamp: N/A
Luminaire Lumens: 726.8 lumens
Efficiency: N/A
Efficacy: 37.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	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

(END OF REPORT)