

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: P1061678

Luminaire Tested: S125RDR-S610D830-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061678
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-S610D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

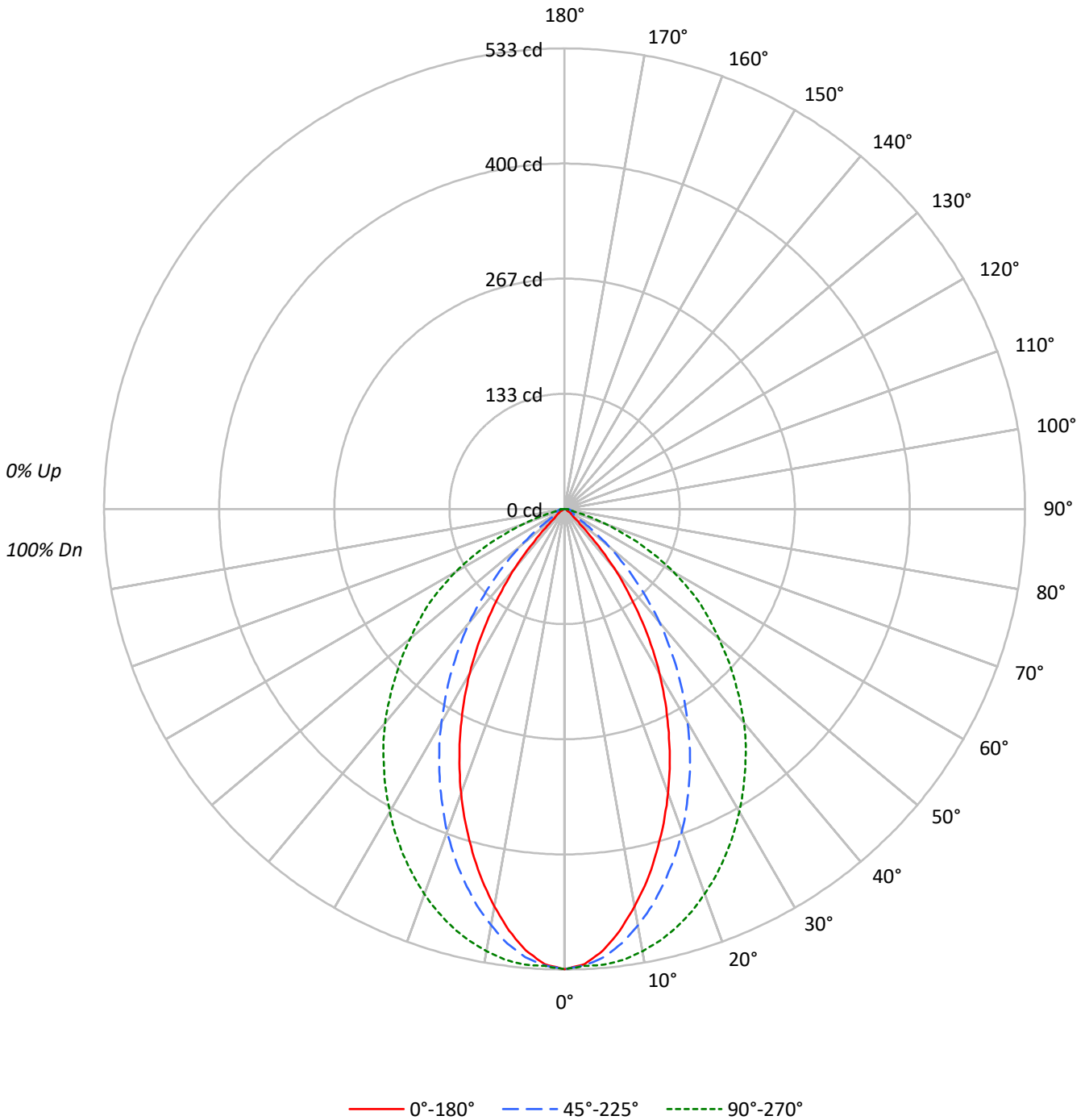
Lumens per Lamp: N/A
Luminaire Lumens: 685.1 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	3667	3667	3667
5°	3546	3600	3659
10°	3265	3421	3632
15°	2932	3184	3573
20°	2567	2913	3475
25°	2167	2601	3354
30°	1747	2263	3218
35°	1284	1908	3065
40°	802	1539	2907
45°	300	1124	2702
50°	140	703	2495
55°	102	292	2307
60°	72	154	1997
65°	42	182	1582
70°	40	211	1005
75°	53	210	314
80°	79	262	234
85°	158	411	308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2702 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	7.1
10°-20°	126.4	18.5
20°-30°	161.1	23.5
30°-40°	149.9	21.9
40°-50°	102.7	15.0
50°-60°	56.6	8.3
60°-70°	26.8	3.9
70°-80°	8.4	1.2
80°-90°	4.3	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°	336.4	49.1
0°-40°	486.3	71.0
0°-60°	645.6	94.2
0°-90°	685.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	513	520	521	525	529	47
15°	411	424	447	480	501	115
25°	285	303	342	398	442	130
35°	153	174	227	302	365	95
45°	31	52	115	205	278	29
55°	8	10	24	114	192	8
65°	3	3	11	42	97	3
75°	2	3	8	8	12	2
85°	2	5	5	5	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	532.6	532.6	532.6	532.6	532.6
2.5°	527.4	532.6	528.7	528.7	529.4
5°	513.0	519.5	520.8	524.8	529.4
7.5°	492.0	500.5	507.1	518.2	526.1
10°	467.0	477.5	489.3	507.7	519.5
12.5°	440.8	452.0	469.7	495.2	511.6
15°	411.3	424.4	446.7	480.2	501.2
17.5°	381.1	395.5	423.1	462.4	488.7
20°	350.3	365.4	397.5	441.5	474.3
22.5°	318.1	334.5	370.0	419.8	458.5
25°	285.3	303.1	342.4	397.5	441.5
27.5°	252.5	270.9	314.2	374.6	423.7
30°	219.7	238.8	284.7	350.9	404.7
32.5°	186.3	207.3	255.8	327.3	385.0
35°	152.8	174.5	227.0	301.7	364.7
37.5°	120.0	142.3	198.8	277.5	344.4
40°	89.2	111.5	171.2	253.2	323.4
42.5°	57.7	81.3	142.3	228.3	300.4
45°	30.8	51.8	115.4	204.7	277.5
47.5°	16.4	27.6	89.9	181.0	255.8
50°	13.1	15.1	65.6	157.4	232.9
52.5°	10.5	11.8	42.0	133.2	212.5
55°	8.5	9.8	24.3	114.1	192.2
57.5°	6.6	7.9	13.8	95.1	168.6
60°	5.2	5.9	11.2	76.1	145.0
62.5°	3.3	4.6	11.2	59.0	121.4
65°	2.6	3.3	11.2	42.0	97.1
67.5°	2.6	2.6	11.2	27.6	72.8
70°	2.0	2.0	10.5	17.7	49.9
72.5°	2.0	2.0	9.2	11.8	28.9
75°	2.0	3.3	7.9	8.5	11.8
77.5°	2.0	5.2	7.2	7.2	6.6
80°	2.0	5.2	6.6	5.9	5.9
82.5°	2.0	5.2	5.2	5.2	4.6
85°	2.0	4.6	5.2	4.6	3.9
87.5°	2.0	4.6	4.6	4.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)