

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: P1061732

Luminaire Tested: S125RDR-S610D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061732
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-S610D935-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, 90 CRI LEDS
Ballast/Driver: -

Summary

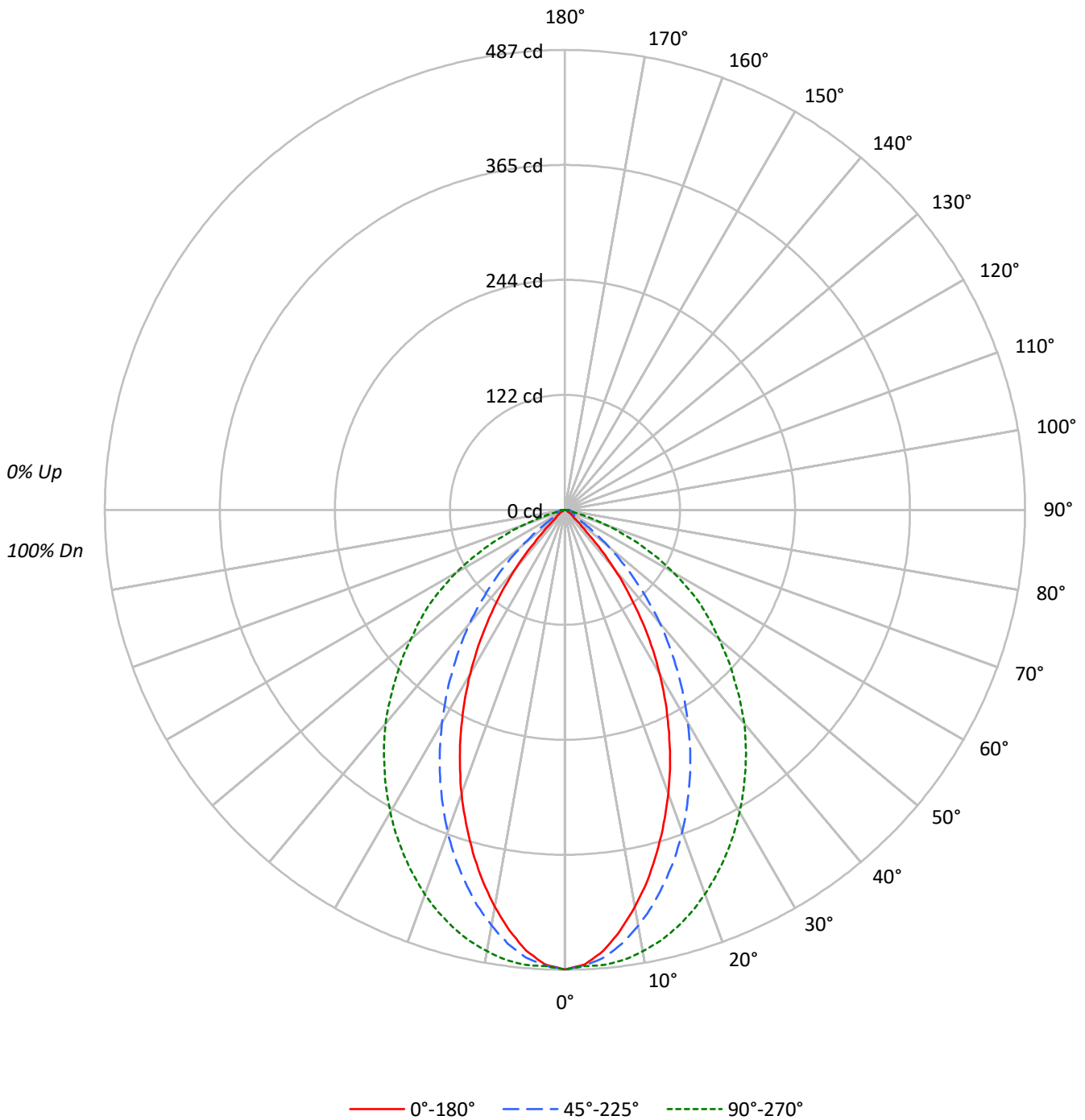
Lumens per Lamp: N/A
Luminaire Lumens: 625.8 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	3350	3350	3350
5°	3239	3289	3342
10°	2983	3125	3318
15°	2678	2909	3263
20°	2345	2660	3174
25°	1981	2376	3064
30°	1596	2068	2939
35°	1173	1742	2801
40°	733	1406	2655
45°	275	1027	2468
50°	129	642	2278
55°	94	266	2108
60°	66	140	1823
65°	39	166	1445
70°	36	193	916
75°	48	192	287
80°	71	238	214
85°	142	379	284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2468 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	7.1
10°-20°	115.5	18.5
20°-30°	147.1	23.5
30°-40°	137.0	21.9
40°-50°	93.8	15.0
50°-60°	51.7	8.3
60°-70°	24.5	3.9
70°-80°	7.7	1.2
80°-90°	3.9	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°	307.3	49.1
0°-40°	444.2	71.0
0°-60°	589.7	94.2
0°-90°	625.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	625.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	487	487	487	487	487	
5°	469	475	476	479	484	43
15°	376	388	408	439	458	105
25°	261	277	313	363	403	119
35°	140	159	207	276	333	87
45°	28	47	106	187	254	27
55°	8	9	22	104	176	7
65°	2	3	10	38	89	3
75°	2	3	7	8	11	2
85°	2	4	5	4	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	486.6	486.6	486.6	486.6	486.6
2.5°	481.8	486.6	483.0	483.0	483.6
5°	468.6	474.6	475.8	479.4	483.6
7.5°	449.4	457.2	463.2	473.4	480.6
10°	426.6	436.2	447.0	463.8	474.6
12.5°	402.7	412.9	429.0	452.4	467.4
15°	375.7	387.7	408.1	438.6	457.8
17.5°	348.1	361.3	386.5	422.4	446.4
20°	320.0	333.8	363.1	403.3	433.2
22.5°	290.6	305.6	338.0	383.5	418.8
25°	260.7	276.8	312.8	363.1	403.3
27.5°	230.7	247.5	287.0	342.1	387.1
30°	200.7	218.1	260.1	320.6	369.7
32.5°	170.2	189.3	233.7	299.0	351.7
35°	139.6	159.4	207.3	275.6	333.2
37.5°	109.7	130.0	181.6	253.5	314.6
40°	81.5	101.9	156.4	231.3	295.4
42.5°	52.7	74.3	130.0	208.5	274.4
45°	28.2	47.3	105.5	187.0	253.5
47.5°	15.0	25.2	82.1	165.4	233.7
50°	12.0	13.8	59.9	143.8	212.7
52.5°	9.6	10.8	38.3	121.6	194.1
55°	7.8	9.0	22.2	104.3	175.6
57.5°	6.0	7.2	12.6	86.9	154.0
60°	4.8	5.4	10.2	69.5	132.4
62.5°	3.0	4.2	10.2	53.9	110.9
65°	2.4	3.0	10.2	38.3	88.7
67.5°	2.4	2.4	10.2	25.2	66.5
70°	1.8	1.8	9.6	16.2	45.5
72.5°	1.8	1.8	8.4	10.8	26.4
75°	1.8	3.0	7.2	7.8	10.8
77.5°	1.8	4.8	6.6	6.6	6.0
80°	1.8	4.8	6.0	5.4	5.4
82.5°	1.8	4.8	4.8	4.8	4.2
85°	1.8	4.2	4.8	4.2	3.6
87.5°	1.8	4.2	4.2	4.2	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)