

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: P1061711

Luminaire Tested: S125RDR-S610D850-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D850-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

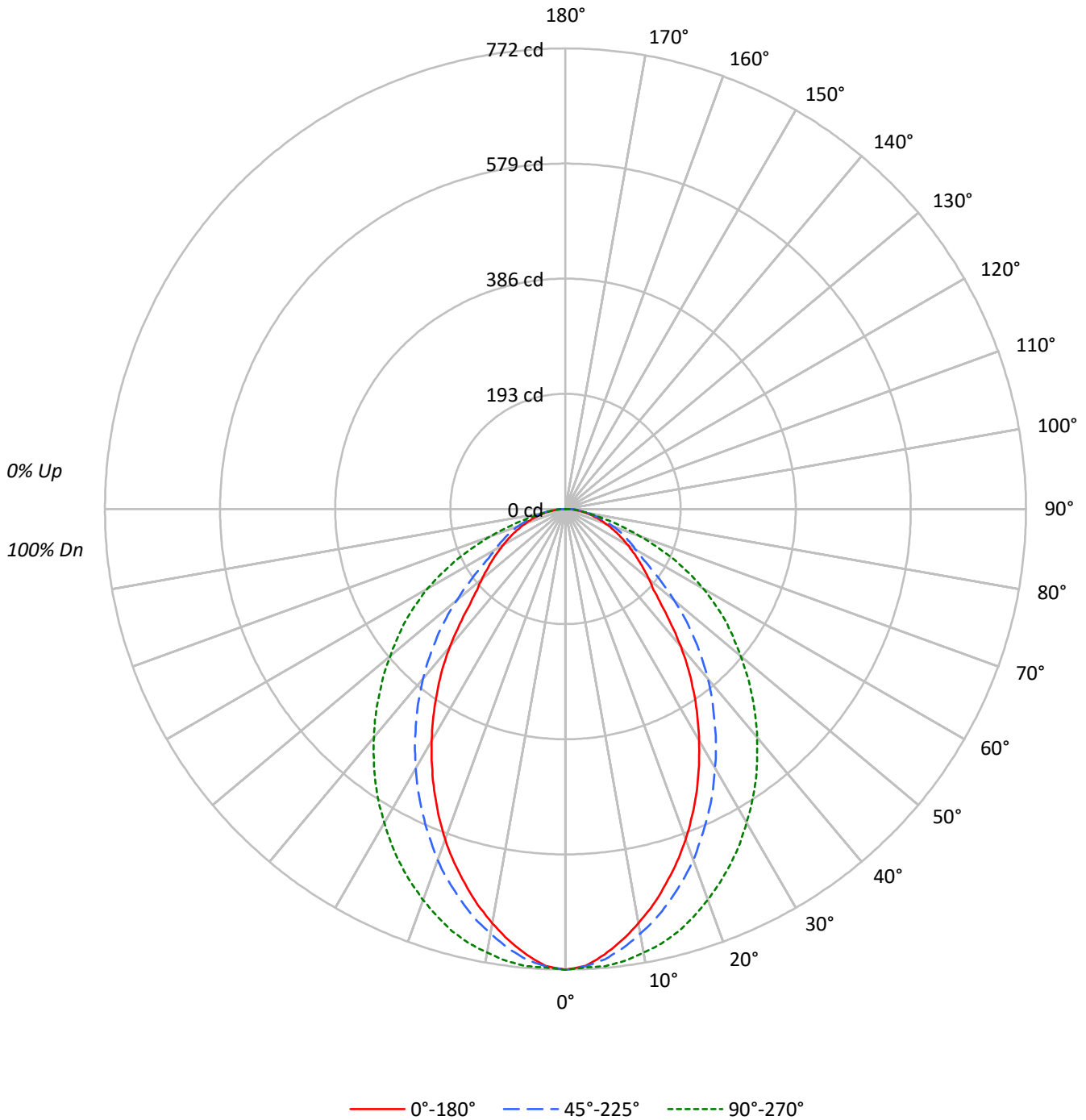
Lumens per Lamp: N/A
Luminaire Lumens: 1447.7 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88				86	
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76				74	
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66				64	
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58				56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52				50	
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46				44	
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42				40	
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38				36	
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35				33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32				30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5317	5317	5317
5°	5183	5236	5316
10°	4930	5054	5281
15°	4636	4839	5224
20°	4319	4590	5110
25°	3957	4296	4982
30°	3563	3987	4827
35°	3151	3664	4675
40°	2705	3335	4493
45°	2208	2967	4305
50°	1958	2545	4107
55°	1797	2112	3936
60°	1658	1870	3666
65°	1546	1797	3268
70°	1443	1709	2671
75°	1333	1601	1971
80°	1253	1499	1439
85°	1161	1461	1217

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4305 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	4.9
10°-20°	192.5	13.3
20°-30°	264.6	18.3
30°-40°	280.4	19.4
40°-50°	244.8	16.9
50°-60°	186.0	12.8
60°-70°	124.6	8.6
70°-80°	64.2	4.4
80°-90°	19.3	1.3
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°	528.5	36.5
0°-40°	808.9	55.9
0°-60°	1239.6	85.6
0°-90°	1447.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	750	758	758	763	769	70
15°	650	663	679	709	733	182
25°	521	537	566	613	656	239
35°	375	396	436	498	556	234
45°	227	249	305	377	442	179
55°	150	154	176	258	328	134
65°	95	97	110	147	201	94
75°	50	53	60	64	74	54
85°	15	18	18	17	15	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.3	772.3	772.3	772.3	772.3
2.5°	766.9	772.3	767.6	767.6	769.2
5°	749.9	757.6	757.6	763.0	769.2
7.5°	729.1	737.5	742.2	754.5	763.8
10°	705.1	714.4	722.9	741.4	755.3
12.5°	679.7	689.7	702.8	726.7	746.0
15°	650.4	662.7	678.9	709.0	732.9
17.5°	621.1	633.4	653.5	688.9	715.9
20°	589.4	602.5	626.5	665.0	697.4
22.5°	555.5	570.1	595.6	639.6	677.4
25°	520.8	537.0	565.5	612.6	655.8
27.5°	484.5	503.8	534.6	584.8	632.6
30°	448.2	467.5	501.5	556.2	607.2
32.5°	412.0	432.8	469.8	527.7	582.5
35°	374.9	396.5	435.9	497.6	556.2
37.5°	338.7	360.3	404.3	468.3	527.7
40°	300.9	323.3	371.1	438.2	499.9
42.5°	262.3	286.2	337.9	407.3	471.4
45°	226.8	249.2	304.7	377.3	442.1
47.5°	200.6	215.2	271.6	346.4	413.5
50°	182.8	190.6	237.6	316.3	383.4
52.5°	165.1	171.3	206.0	285.5	354.9
55°	149.7	154.3	175.9	258.5	327.9
57.5°	134.2	138.9	152.8	231.4	296.3
60°	120.4	124.2	135.8	202.9	266.2
62.5°	107.2	110.3	122.7	175.9	233.8
65°	94.9	97.2	110.3	147.4	200.6
67.5°	82.5	84.9	98.0	120.4	165.1
70°	71.7	72.5	84.9	98.0	132.7
72.5°	60.9	61.7	71.7	79.5	101.8
75°	50.1	53.2	60.2	64.0	74.1
77.5°	40.9	44.7	48.6	50.1	50.1
80°	31.6	36.3	37.8	37.8	36.3
82.5°	23.1	27.0	27.8	26.2	24.7
85°	14.7	18.5	18.5	17.0	15.4
87.5°	6.9	10.0	10.0	9.3	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)