

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: P1061657

Luminaire Tested: S125RDR-S375D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061657
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-S375D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

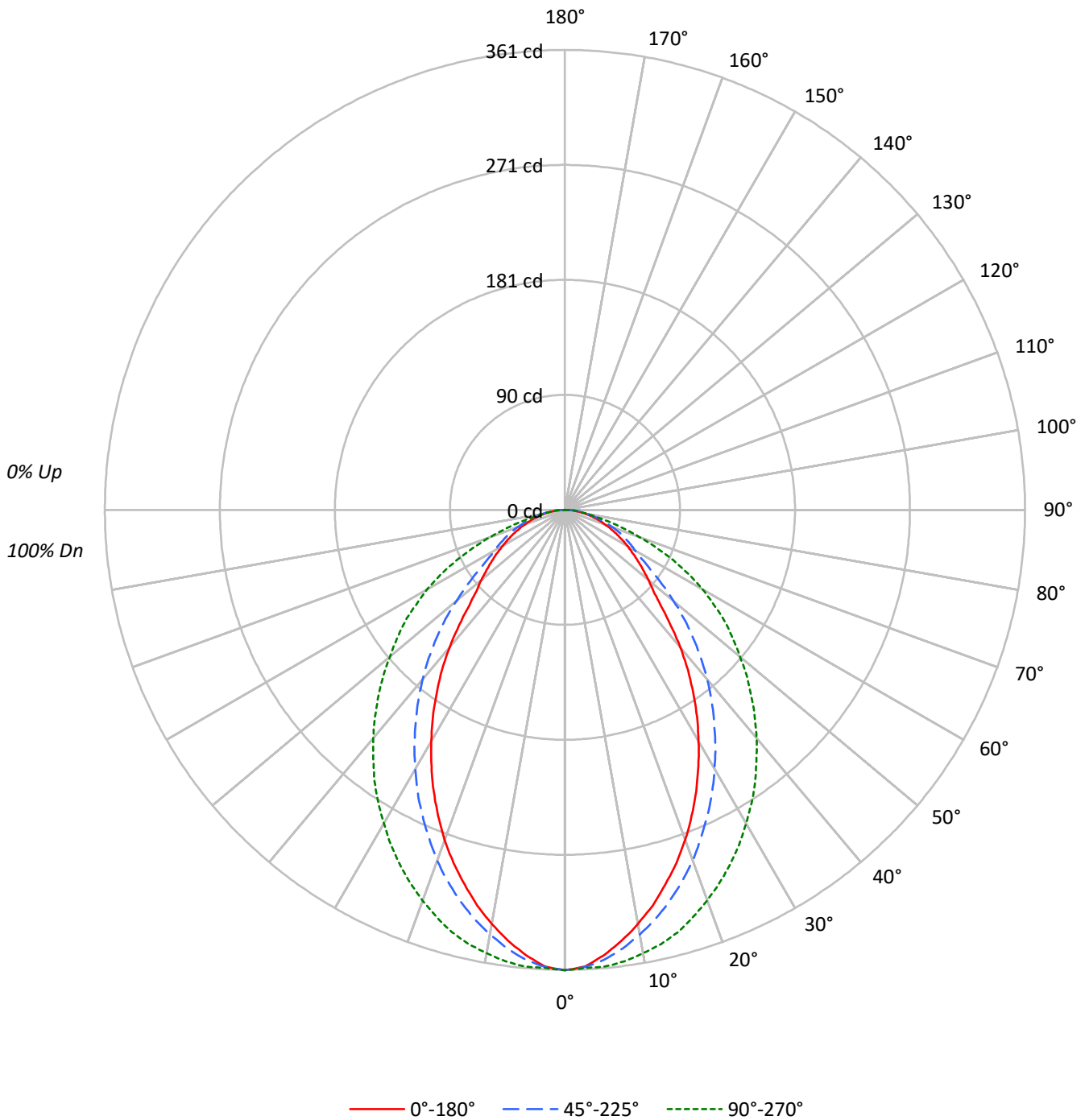
Lumens per Lamp: N/A
Luminaire Lumens: 677.5 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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										
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	100	100	100	100	100														
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86	86	86	86	86	86														
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74	74	74	74	74	74	74														
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64	64	64	64	64	64	64														
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56	56	56	56	56	56	56														
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	50	50	50	50	50														
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40	40	40	40	40	40	40														
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36	36	36	36	36	36	36														
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33	33	33	33	33														
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30	30	30	30														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2488	2488	2488
5°	2425	2450	2487
10°	2307	2365	2471
15°	2169	2265	2445
20°	2021	2148	2392
25°	1851	2010	2332
30°	1668	1866	2259
35°	1475	1715	2188
40°	1266	1560	2102
45°	1033	1389	2015
50°	917	1191	1922
55°	840	988	1841
60°	775	874	1716
65°	723	841	1530
70°	676	799	1250
75°	625	750	923
80°	587	702	674
85°	545	687	569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2015 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	4.9
10°-20°	90.1	13.3
20°-30°	123.8	18.3
30°-40°	131.2	19.4
40°-50°	114.5	16.9
50°-60°	87.0	12.8
60°-70°	58.3	8.6
70°-80°	30.1	4.4
80°-90°	9.0	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°	247.3	36.5
0°-40°	378.5	55.9
0°-60°	580.1	85.6
0°-90°	677.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	677.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	361	361	361	361	361	
5°	351	354	354	357	360	33
15°	304	310	318	332	343	85
25°	244	251	265	287	307	112
35°	176	186	204	233	260	109
45°	106	117	143	176	207	84
55°	70	72	82	121	153	63
65°	44	46	52	69	94	44
75°	24	25	28	30	35	25
85°	7	9	9	8	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	361.4	361.4	361.4	361.4	361.4
2.5°	358.8	361.4	359.2	359.2	359.9
5°	350.9	354.5	354.5	357.0	359.9
7.5°	341.2	345.1	347.3	353.1	357.4
10°	330.0	334.3	338.3	346.9	353.4
12.5°	318.1	322.7	328.9	340.1	349.1
15°	304.3	310.1	317.7	331.8	343.0
17.5°	290.6	296.4	305.8	322.4	335.0
20°	275.8	282.0	293.1	311.2	326.4
22.5°	259.9	266.8	278.7	299.3	317.0
25°	243.7	251.3	264.6	286.6	306.9
27.5°	226.7	235.7	250.2	273.7	296.0
30°	209.8	218.8	234.7	260.3	284.1
32.5°	192.8	202.5	219.9	246.9	272.6
35°	175.5	185.6	204.0	232.9	260.3
37.5°	158.5	168.6	189.2	219.1	246.9
40°	140.8	151.3	173.6	205.1	233.9
42.5°	122.7	133.9	158.1	190.6	220.6
45°	106.1	116.6	142.6	176.5	206.9
47.5°	93.9	100.7	127.1	162.1	193.5
50°	85.6	89.2	111.2	148.0	179.4
52.5°	77.3	80.1	96.4	133.6	166.1
55°	70.0	72.2	82.3	120.9	153.4
57.5°	62.8	65.0	71.5	108.3	138.6
60°	56.3	58.1	63.5	94.9	124.6
62.5°	50.2	51.6	57.4	82.3	109.4
65°	44.4	45.5	51.6	69.0	93.9
67.5°	38.6	39.7	45.8	56.3	77.3
70°	33.6	33.9	39.7	45.8	62.1
72.5°	28.5	28.9	33.6	37.2	47.7
75°	23.5	24.9	28.2	30.0	34.7
77.5°	19.1	20.9	22.7	23.5	23.5
80°	14.8	17.0	17.7	17.7	17.0
82.5°	10.8	12.6	13.0	12.3	11.6
85°	6.9	8.7	8.7	7.9	7.2
87.5°	3.2	4.7	4.7	4.3	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)