

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: P1061645

Luminaire Tested: S125RDR-S375D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D930-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

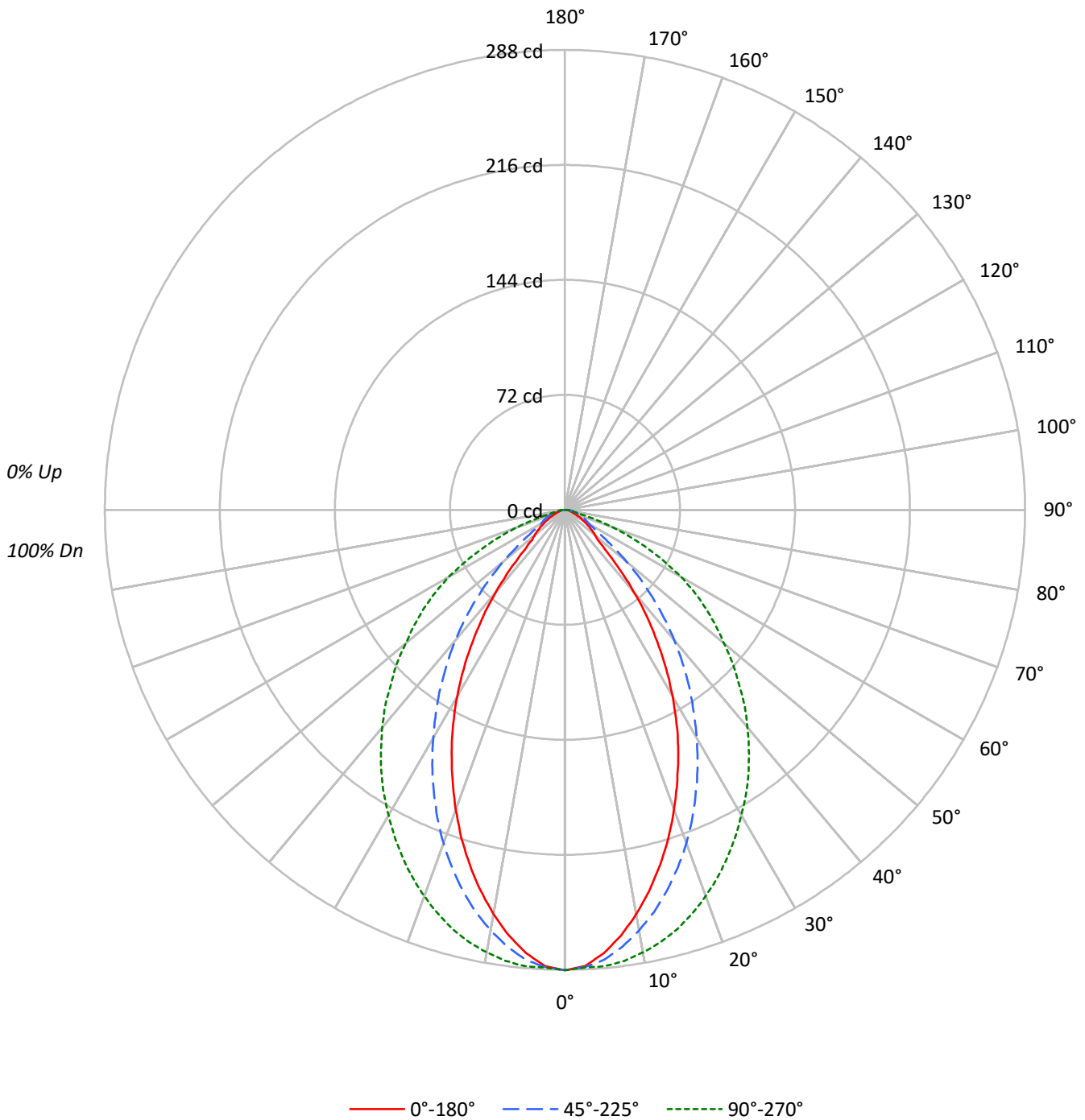
Lumens per Lamp: N/A
Luminaire Lumens: 416.2 lumens
Efficiency: N/A
Efficacy: 33.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1985	1985	1985
5°	1926	1955	1983
10°	1798	1870	1967
15°	1640	1760	1937
20°	1463	1629	1887
25°	1276	1475	1826
30°	1071	1310	1756
35°	845	1141	1684
40°	606	959	1598
45°	356	753	1499
50°	264	542	1391
55°	222	329	1293
60°	179	240	1154
65°	138	228	925
70°	117	213	626
75°	109	192	274
80°	107	190	174
85°	134	245	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	6.4
10°-20°	69.8	16.8
20°-30°	91.2	21.9
30°-40°	88.8	21.3
40°-50°	66.3	15.9
50°-60°	41.1	9.9
60°-70°	21.6	5.2
70°-80°	7.9	1.9
80°-90°	3.0	0.7
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°	187.5	45.1
0°-40°	276.3	66.4
0°-60°	383.8	92.2
0°-90°	416.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	416.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	288	288	288	288	288	
5°	279	282	283	284	287	26
15°	230	237	247	262	272	64
25°	168	176	194	220	240	77
35°	100	112	136	172	200	63
45°	37	48	77	121	154	31
55°	18	20	27	71	108	17
65°	8	9	14	30	57	9
75°	4	5	7	8	10	4
85°	2	3	3	3	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	288.3	288.3	288.3	288.3	288.3
2.5°	285.9	288.3	286.5	286.5	286.9
5°	278.7	282.4	282.8	284.5	286.9
7.5°	268.8	273.2	275.9	281.1	284.8
10°	257.1	262.3	267.4	275.9	281.4
12.5°	244.1	250.3	257.8	269.4	277.3
15°	230.1	237.0	246.9	261.9	271.8
17.5°	215.4	222.6	234.9	253.0	265.0
20°	199.7	207.6	222.3	242.8	257.5
22.5°	183.6	192.5	208.6	231.8	249.3
25°	167.9	176.4	194.2	220.5	240.4
27.5°	151.5	160.4	179.9	208.9	230.8
30°	134.7	144.3	164.8	197.0	220.9
32.5°	118.0	127.9	150.1	184.6	211.0
35°	100.5	111.5	135.7	172.0	200.4
37.5°	84.1	95.7	121.0	159.0	189.1
40°	67.4	79.3	106.7	146.3	177.8
42.5°	50.9	63.3	92.0	133.4	166.5
45°	36.6	47.9	77.3	120.7	153.9
47.5°	28.0	34.5	63.6	107.7	142.6
50°	24.6	26.7	50.6	95.1	129.9
52.5°	21.5	22.9	37.6	82.7	119.0
55°	18.5	19.5	27.4	71.1	107.7
57.5°	15.7	16.8	20.9	60.5	96.1
60°	13.0	14.0	17.4	49.9	83.8
62.5°	10.9	11.3	15.7	40.0	70.1
65°	8.5	9.2	14.0	30.1	56.8
67.5°	7.2	7.5	12.3	21.5	43.8
70°	5.8	6.2	10.6	15.0	31.1
72.5°	5.1	5.1	8.9	10.9	19.8
75°	4.1	4.8	7.2	7.9	10.3
77.5°	3.4	4.8	6.2	5.8	5.5
80°	2.7	4.4	4.8	4.8	4.4
82.5°	2.4	3.8	4.1	3.8	3.4
85°	1.7	3.1	3.1	3.1	2.4
87.5°	1.4	2.7	2.4	2.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)