

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: P1057918

Luminaire Tested: S122RDR-S290D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S290D930-X4F0-XX-UDD-SVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

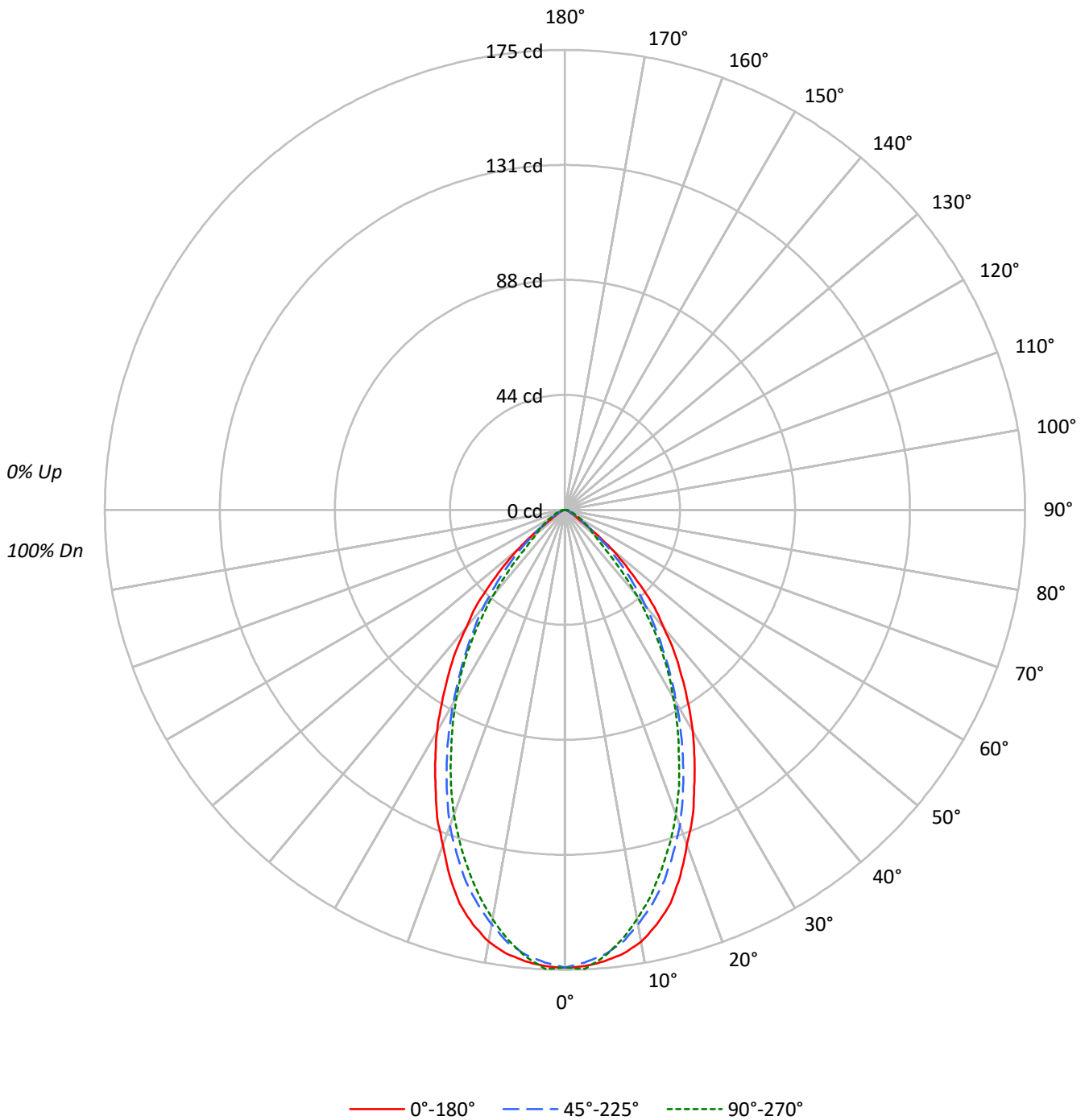
Lumens per Lamp: N/A
Luminaire Lumens: 187.3 lumens
Efficiency: N/A
Efficacy: 15.0 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76				
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59				
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54				
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50				
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47				
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3214	3214	3214
5°	3193	3149	3162
10°	3127	3002	2964
15°	2961	2789	2709
20°	2663	2512	2423
25°	2370	2166	2087
30°	2073	1807	1756
35°	1746	1464	1417
40°	1407	1156	1021
45°	1052	835	608
50°	657	540	399
55°	225	290	325
60°	129	181	258
65°	92	122	196
70°	76	92	151
75°	50	71	121
80°	32	74	106
85°	0	0	64

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1052 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	8.6
10°-20°	41.1	21.9
20°-30°	49.5	26.4
30°-40°	42.3	22.6
40°-50°	24.8	13.2
50°-60°	9.0	4.8
60°-70°	3.2	1.7
70°-80°	1.3	0.7
80°-90°	0.2	0.1
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°	106.6	56.9
0°-40°	148.9	79.5
0°-60°	182.6	97.5
0°-90°	187.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	187.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	174	174	174	174	174	
5°	172	173	170	171	171	16
15°	155	153	146	143	142	43
25°	116	112	106	105	102	53
35°	78	72	65	64	63	48
45°	40	36	32	27	23	31
55°	7	10	9	9	10	9
65°	2	2	3	4	4	2
75°	1	1	1	1	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	174.2	174.2	174.2	174.2	174.2
2.5°	173.8	174.2	172.4	174.2	174.8
5°	172.4	172.8	170.0	170.7	170.7
7.5°	170.3	170.0	166.2	165.5	165.1
10°	166.9	165.8	160.2	159.2	158.2
12.5°	161.6	159.6	153.6	151.9	150.5
15°	155.0	152.6	146.0	143.2	141.8
17.5°	146.0	143.2	137.0	134.2	132.8
20°	135.6	132.8	127.9	124.8	123.4
22.5°	126.9	122.4	117.1	115.1	113.3
25°	116.4	111.6	106.4	104.6	102.5
27.5°	106.7	100.8	95.6	94.2	92.5
30°	97.3	91.1	84.8	84.8	82.4
32.5°	87.2	81.3	74.7	74.4	73.0
35°	77.5	71.6	65.0	64.3	62.9
37.5°	68.5	62.6	56.3	54.2	52.5
40°	58.4	53.2	48.0	44.5	42.4
42.5°	50.4	44.5	39.3	35.1	32.3
45°	40.3	36.2	32.0	26.8	23.3
47.5°	31.3	28.5	25.0	19.1	17.4
50°	22.9	21.6	18.8	14.3	13.9
52.5°	14.6	15.3	13.6	11.1	12.2
55°	7.0	9.7	9.0	9.4	10.1
57.5°	4.5	4.9	6.6	7.6	8.3
60°	3.5	3.5	4.9	6.3	7.0
62.5°	2.8	2.8	3.8	5.2	5.6
65°	2.1	2.4	2.8	3.8	4.5
67.5°	1.7	1.7	2.1	3.1	3.5
70°	1.4	1.4	1.7	2.4	2.8
72.5°	1.0	1.0	1.4	2.1	2.1
75°	0.7	1.0	1.0	1.4	1.7
77.5°	0.7	0.7	0.7	1.0	1.4
80°	0.3	0.3	0.7	0.7	1.0
82.5°	0.3	0.3	0.3	0.3	0.7
85°	0.0	0.0	0.0	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)