

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: P1057862

Luminaire Tested: S122RDR-S1005D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-60)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D950-X4F0-XX-UDD-BVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

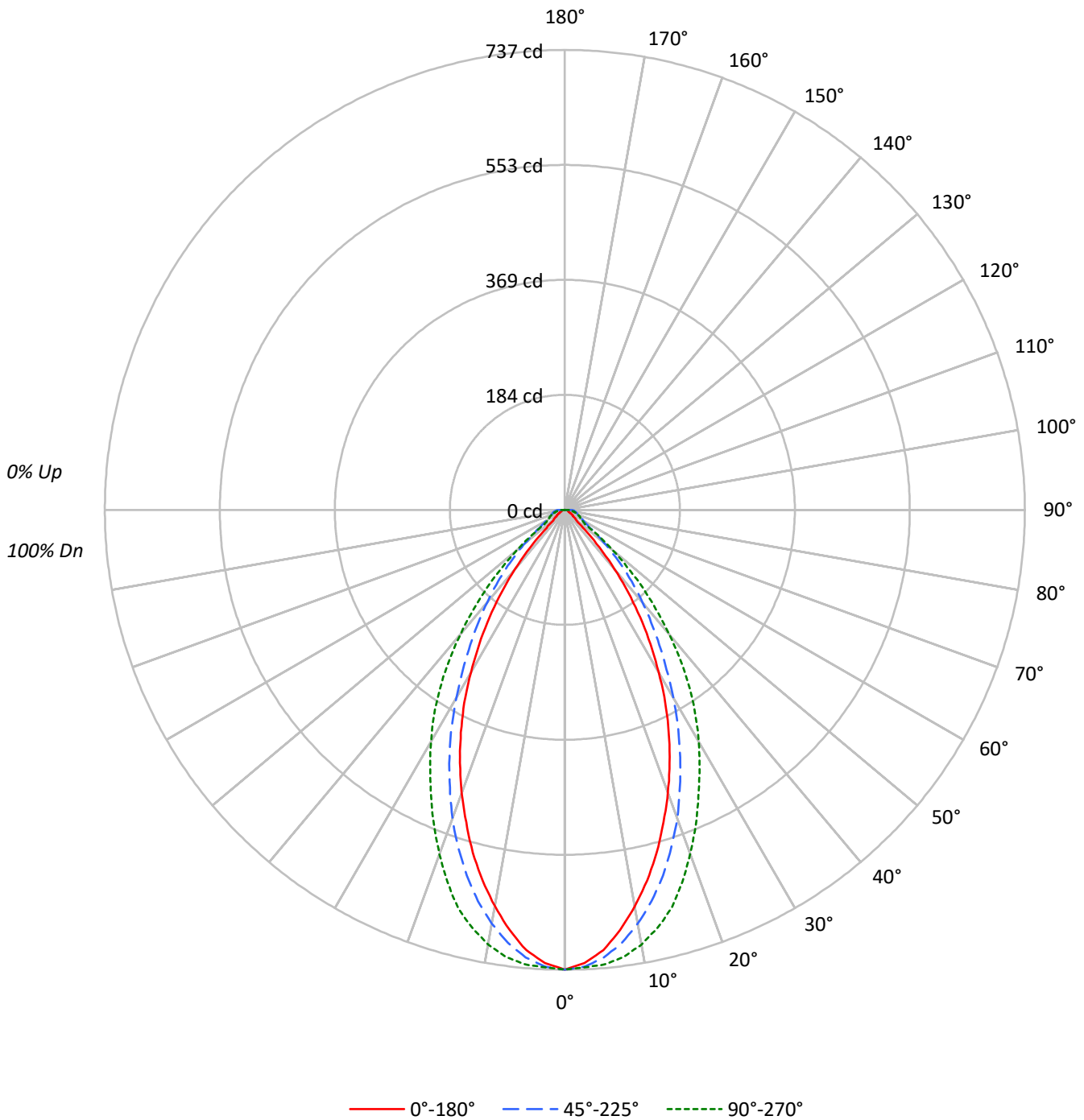
Lumens per Lamp: N/A
Luminaire Lumens: 794.2 lumens
Efficiency: N/A
Efficacy: 19.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.95 / 0.9
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	97	98	96	95	95	93	92	90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74				
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67				
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61				
6	82	72	65	60	80	71	64	59	69	63	59	68	63	59	66	62	58	57				
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52				
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48				
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45				
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13596	13596	13596
5°	13124	13333	13542
10°	12085	12616	13249
15°	10866	11594	12620
20°	9479	10339	11531
25°	8018	8908	10316
30°	6405	7398	9143
35°	4737	5945	7853
40°	2992	4659	6256
45°	1180	3499	4603
50°	609	2351	2836
55°	499	1544	1271
60°	365	1251	1148
65°	310	1170	1170
70°	302	1219	1144
75°	399	1412	1205
80°	595	1796	1350
85°	889	2985	1800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 87.5°
 Luminance: 5965 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	8.5
10°-20°	170.2	21.4
20°-30°	202.3	25.5
30°-40°	168.3	21.2
40°-50°	94.0	11.8
50°-60°	38.0	4.8
60°-70°	24.3	3.1
70°-80°	18.2	2.3
80°-90°	11.6	1.5
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°	439.9	55.4
0°-40°	608.1	76.6
0°-60°	740.1	93.2
0°-90°	794.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	794.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	708	721	720	726	731	66
15°	569	586	607	638	661	158
25°	394	409	438	471	507	180
35°	210	230	264	308	349	130
45°	45	76	134	157	176	42
55°	16	32	48	47	40	14
65°	7	28	27	25	27	7
75°	6	20	20	18	17	6
85°	4	13	14	13	8	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.8	736.8	736.8	736.8	736.8
2.5°	726.9	738.2	732.5	732.5	733.9
5°	708.5	721.2	719.8	725.5	731.1
7.5°	678.9	693.0	700.1	712.8	722.7
10°	645.0	660.6	673.3	693.0	707.1
12.5°	608.3	623.9	642.2	667.6	686.0
15°	568.8	585.7	606.9	638.0	660.6
17.5°	525.1	543.4	567.4	601.3	625.3
20°	482.7	501.1	526.5	560.3	587.2
22.5°	439.0	454.5	481.3	515.2	547.6
25°	393.8	409.3	437.5	471.4	506.7
27.5°	348.6	364.2	392.4	427.7	467.2
30°	300.6	317.6	347.2	386.7	429.1
32.5°	255.5	272.4	303.5	347.2	389.6
35°	210.3	230.1	263.9	307.7	348.6
37.5°	166.5	189.1	227.2	268.2	304.9
40°	124.2	148.2	193.4	228.7	259.7
42.5°	81.9	110.1	162.3	192.0	216.0
45°	45.2	76.2	134.1	156.7	176.4
47.5°	25.4	49.4	105.9	124.2	135.5
50°	21.2	36.7	81.9	94.6	98.8
52.5°	16.9	33.9	62.1	69.2	66.3
55°	15.5	32.5	48.0	46.6	39.5
57.5°	12.7	32.5	38.1	33.9	33.9
60°	9.9	31.1	33.9	29.6	31.1
62.5°	8.5	29.6	31.1	28.2	28.2
65°	7.1	28.2	26.8	25.4	26.8
67.5°	5.6	25.4	25.4	24.0	24.0
70°	5.6	24.0	22.6	21.2	21.2
72.5°	5.6	21.2	21.2	19.8	19.8
75°	5.6	19.8	19.8	18.3	16.9
77.5°	5.6	16.9	18.3	16.9	15.5
80°	5.6	15.5	16.9	15.5	12.7
82.5°	5.6	14.1	15.5	14.1	11.3
85°	4.2	12.7	14.1	12.7	8.5
87.5°	4.2	12.7	14.1	11.3	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)