

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: P1057835

Luminaire Tested: S122RDR-S1005D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057835
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-S1005D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

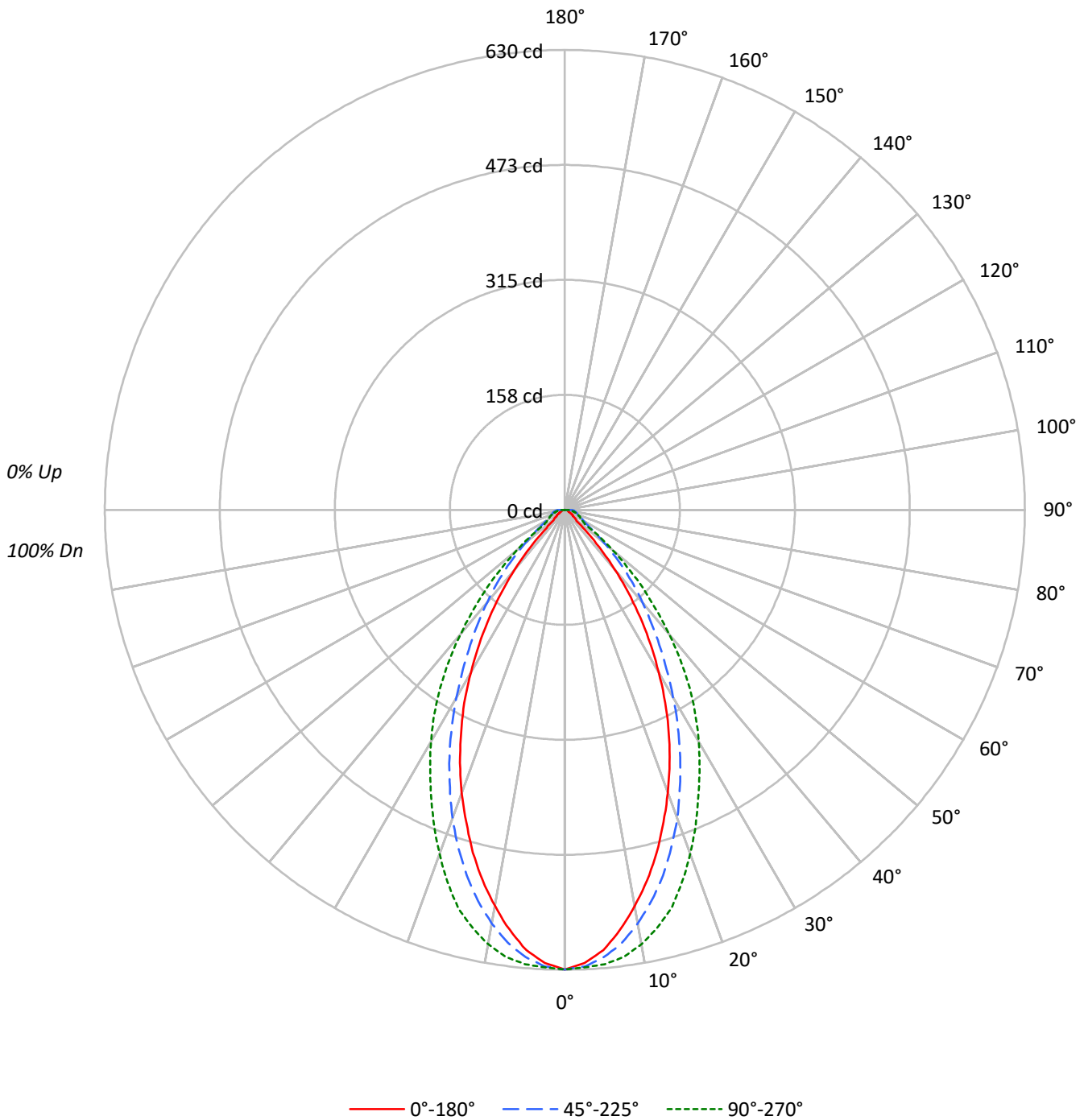
Lumens per Lamp: N/A
Luminaire Lumens: 678.7 lumens
Efficiency: N/A
Efficacy: 16.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.95 / 0.9
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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			100	
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90			90	
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81			81	
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74			74	
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			67	
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61			61	
6	82	72	65	60	80	71	64	59	69	63	59	68	63	59	66	62	58	57			57	
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			52	
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48			48	
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45			45	
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42			42	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11620	11620	11620
5°	11216	11395	11573
10°	10328	10781	11323
15°	9286	9909	10784
20°	8100	8835	9854
25°	6851	7613	8816
30°	5474	6322	7813
35°	4048	5082	6711
40°	2556	3982	5345
45°	1007	2991	3935
50°	520	2009	2423
55°	428	1319	1087
60°	310	1067	978
65°	262	1000	1000
70°	259	1041	977
75°	342	1205	1034
80°	510	1541	1158
85°	762	2562	1524

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 87.5°
 Luminance: 5119 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	8.5
10°-20°	145.5	21.4
20°-30°	172.9	25.5
30°-40°	143.8	21.2
40°-50°	80.3	11.8
50°-60°	32.4	4.8
60°-70°	20.7	3.1
70°-80°	15.6	2.3
80°-90°	9.9	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°	375.9	55.4
0°-40°	519.7	76.6
0°-60°	632.5	93.2
0°-90°	678.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	678.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	606	616	615	620	625	56
15°	486	501	519	545	564	135
25°	336	350	374	403	433	153
35°	180	197	226	263	298	112
45°	39	65	115	134	151	36
55°	13	28	41	40	34	12
65°	6	24	23	22	23	6
75°	5	17	17	16	14	5
85°	4	11	12	11	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.7	629.7	629.7	629.7	629.7
2.5°	621.2	630.9	626.0	626.0	627.2
5°	605.5	616.4	615.2	620.0	624.8
7.5°	580.2	592.3	598.3	609.1	617.6
10°	551.2	564.5	575.4	592.3	604.3
12.5°	519.9	533.2	548.8	570.5	586.2
15°	486.1	500.6	518.7	545.2	564.5
17.5°	448.7	464.4	484.9	513.9	534.4
20°	412.5	428.2	449.9	478.9	501.8
22.5°	375.1	388.4	411.3	440.3	468.0
25°	336.5	349.8	373.9	402.9	433.0
27.5°	297.9	311.2	335.3	365.5	399.3
30°	256.9	271.4	296.7	330.5	366.7
32.5°	218.3	232.8	259.3	296.7	332.9
35°	179.7	196.6	225.6	263.0	297.9
37.5°	142.3	161.6	194.2	229.2	260.5
40°	106.1	126.7	165.3	195.4	221.9
42.5°	70.0	94.1	138.7	164.0	184.6
45°	38.6	65.1	114.6	133.9	150.8
47.5°	21.7	42.2	90.5	106.1	115.8
50°	18.1	31.4	70.0	80.8	84.4
52.5°	14.5	28.9	53.1	59.1	56.7
55°	13.3	27.7	41.0	39.8	33.8
57.5°	10.9	27.7	32.6	28.9	28.9
60°	8.4	26.5	28.9	25.3	26.5
62.5°	7.2	25.3	26.5	24.1	24.1
65°	6.0	24.1	22.9	21.7	22.9
67.5°	4.8	21.7	21.7	20.5	20.5
70°	4.8	20.5	19.3	18.1	18.1
72.5°	4.8	18.1	18.1	16.9	16.9
75°	4.8	16.9	16.9	15.7	14.5
77.5°	4.8	14.5	15.7	14.5	13.3
80°	4.8	13.3	14.5	13.3	10.9
82.5°	4.8	12.1	13.3	12.1	9.6
85°	3.6	10.9	12.1	10.9	7.2
87.5°	3.6	10.9	12.1	9.6	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)