

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: P1057794

Luminaire Tested: S122RDR-S1005D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D830-X4F0-XX-UDD-SVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

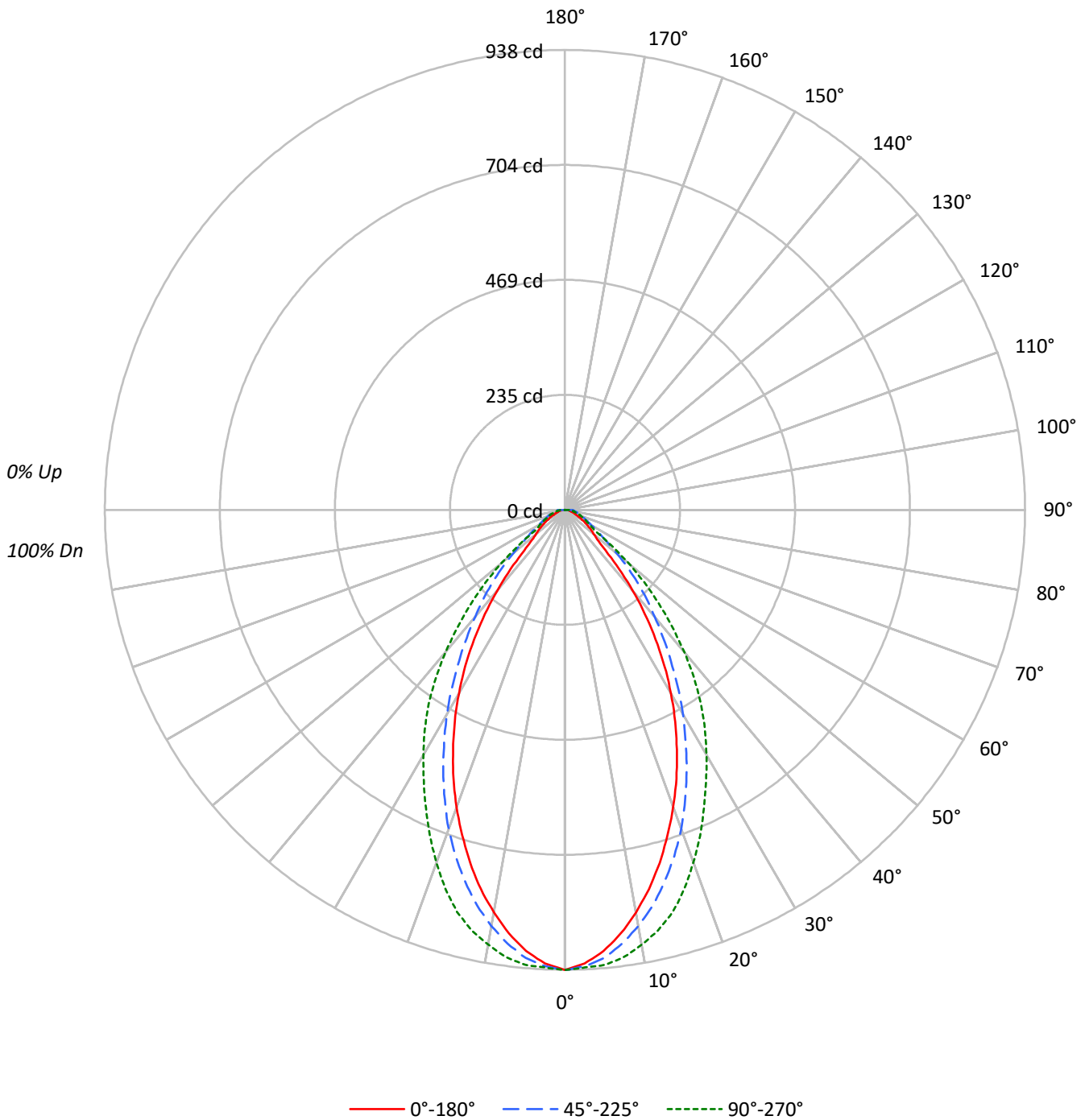
Lumens per Lamp: N/A
Luminaire Lumens: 1138.3 lumens
Efficiency: N/A
Efficacy: 27.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17318	17318	17318
5°	16737	16997	17254
10°	15625	16148	16878
15°	14251	14998	16223
20°	12677	13610	15034
25°	10988	11953	13655
30°	9211	10251	12301
35°	7256	8481	10900
40°	5174	6853	9103
45°	3056	5423	7059
50°	2202	3924	4803
55°	1840	2828	2422
60°	1491	2266	2059
65°	1218	2008	1886
70°	1052	1958	1807
75°	991	1989	1790
80°	1041	2370	1923
85°	1482	3832	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7059 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	7.6
10°-20°	221.1	19.4
20°-30°	272.8	24.0
30°-40°	242.7	21.3
40°-50°	154.9	13.6
50°-60°	74.4	6.5
60°-70°	43.7	3.8
70°-80°	27.9	2.4
80°-90°	14.9	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°	580.0	51.0
0°-40°	822.7	72.3
0°-60°	1051.9	92.4
0°-90°	1138.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1138.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	904	920	918	923	932	84
15°	746	764	785	821	849	208
25°	540	561	587	629	671	247
35°	322	347	376	434	484	200
45°	117	152	208	241	270	98
55°	57	74	88	85	75	52
65°	28	50	46	42	43	28
75°	14	31	28	26	25	15
85°	7	17	18	15	11	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	938.5	938.5	938.5	938.5	938.5
2.5°	925.9	941.3	931.5	931.5	934.3
5°	903.6	920.4	917.6	923.1	931.5
7.5°	871.6	889.7	892.5	907.8	920.4
10°	833.9	853.4	861.8	884.1	900.8
12.5°	792.1	811.6	826.9	854.8	878.5
15°	746.0	764.2	785.1	821.3	849.2
17.5°	695.8	719.6	740.5	778.1	810.2
20°	645.6	668.0	693.1	729.3	765.6
22.5°	594.0	615.0	640.1	677.7	719.6
25°	539.7	560.6	587.1	628.9	670.7
27.5°	486.7	507.6	532.7	578.7	623.3
30°	432.3	453.2	481.1	528.5	577.3
32.5°	377.9	400.2	428.1	479.7	531.3
35°	322.1	347.2	376.5	433.7	483.9
37.5°	267.7	292.8	329.1	384.9	432.3
40°	214.8	244.0	284.5	334.7	377.9
42.5°	163.2	195.2	245.4	285.9	323.5
45°	117.1	152.0	207.8	241.2	270.5
47.5°	89.2	114.3	171.5	198.0	218.9
50°	76.7	92.0	136.7	156.2	167.3
52.5°	66.9	80.9	108.8	118.5	118.5
55°	57.2	73.9	87.9	85.1	75.3
57.5°	48.8	66.9	72.5	61.4	64.1
60°	40.4	61.4	61.4	54.4	55.8
62.5°	33.5	57.2	53.0	47.4	48.8
65°	27.9	50.2	46.0	41.8	43.2
67.5°	22.3	44.6	40.4	37.7	37.7
70°	19.5	40.4	36.3	33.5	33.5
72.5°	16.7	34.9	32.1	29.3	29.3
75°	13.9	30.7	27.9	26.5	25.1
77.5°	12.6	26.5	25.1	22.3	20.9
80°	9.8	22.3	22.3	20.9	18.1
82.5°	8.4	19.5	19.5	18.1	15.3
85°	7.0	16.7	18.1	15.3	11.2
87.5°	5.6	15.3	15.3	12.6	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)