

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: P1057868

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D950-X4F0-XX-UDD-WVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

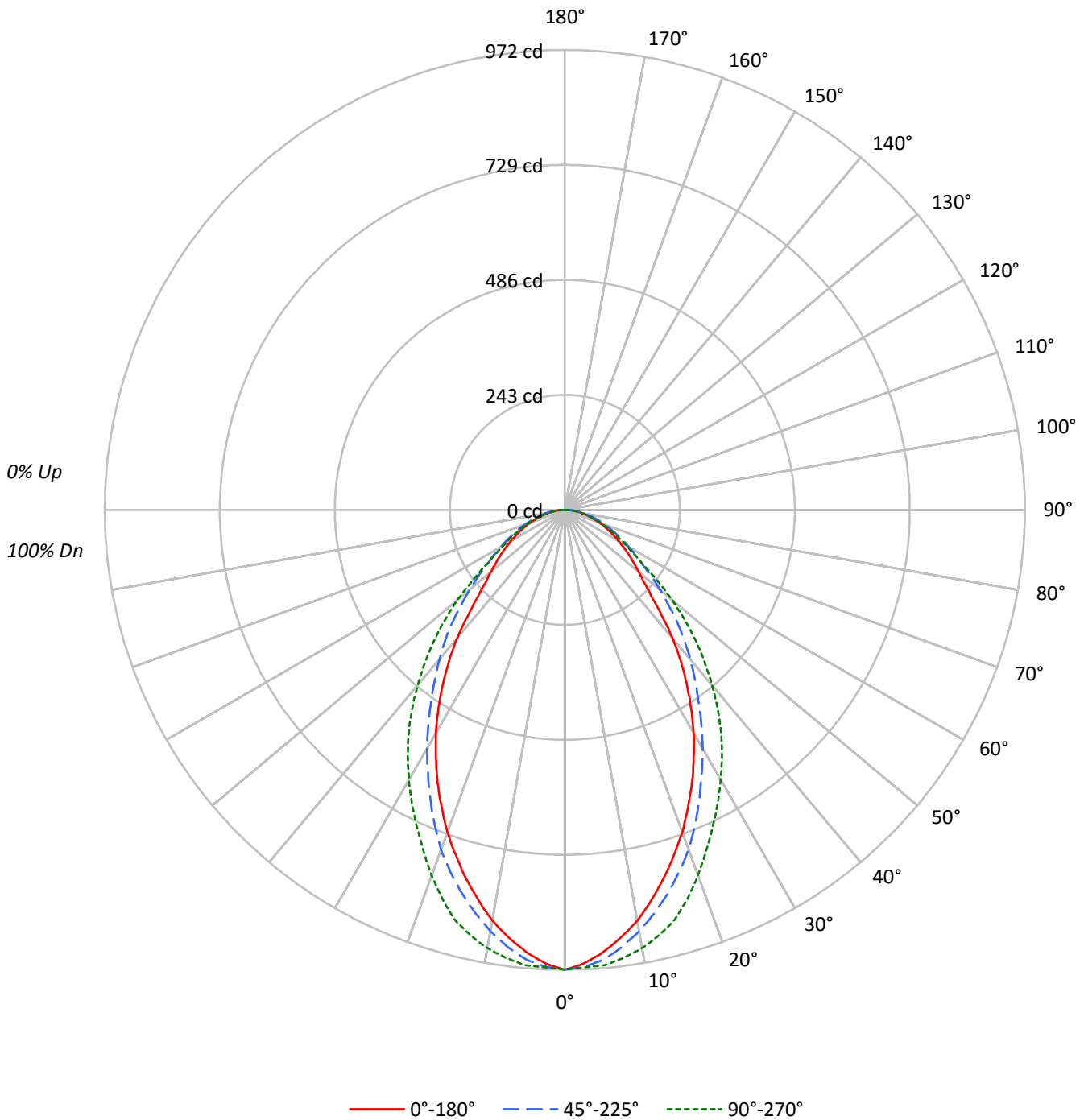
Lumens per Lamp: N/A
Luminaire Lumens: 1582.5 lumens
Efficiency: N/A
Efficacy: 37.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	79	84	80	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17932	17932	17932
5°	17375	17662	17897
10°	16517	16940	17628
15°	15413	16032	17138
20°	14237	15012	16147
25°	12951	13698	15048
30°	11600	12411	14035
35°	10103	11090	12964
40°	8527	9922	11654
45°	6772	8760	10196
50°	5830	7530	8463
55°	5308	6444	6489
60°	4842	5728	5517
65°	4436	5174	4864
70°	4111	4796	4338
75°	3821	4527	3821
80°	3602	4346	3443
85°	3578	4488	2985

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10196 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	5.7
10°-20°	237.2	15.0
20°-30°	312.1	19.7
30°-40°	313.8	19.8
40°-50°	254.3	16.1
50°-60°	175.2	11.1
60°-70°	114.7	7.2
70°-80°	63.9	4.0
80°-90°	21.6	1.4
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°	638.9	40.4
0°-40°	952.8	60.2
0°-60°	1382.3	87.4
0°-90°	1582.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1582.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	938	956	954	958	966	88
15°	807	826	839	870	897	226
25°	636	653	673	702	739	291
35°	448	470	492	536	576	280
45°	260	289	336	365	391	205
55°	165	183	200	204	202	148
65°	102	121	118	113	111	101
75°	54	66	64	56	54	57
85°	17	23	21	18	14	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.8	971.8	971.8	971.8	971.8
2.5°	959.1	976.0	966.2	966.2	967.6
5°	938.0	956.3	953.5	957.7	966.2
7.5°	911.2	930.9	930.9	943.6	954.9
10°	881.5	901.3	904.1	923.9	940.8
12.5°	844.9	864.6	873.1	898.5	921.0
15°	806.8	826.5	839.2	870.3	897.1
17.5°	765.9	785.6	802.6	835.0	861.8
20°	725.0	743.3	764.5	792.7	822.3
22.5°	679.8	699.6	719.3	746.1	780.0
25°	636.1	653.0	672.8	702.4	739.1
27.5°	589.6	607.9	626.2	661.5	699.6
30°	544.4	562.8	582.5	619.2	658.7
32.5°	496.5	516.2	536.0	576.9	617.8
35°	448.5	469.7	492.3	536.0	575.5
37.5°	402.0	424.6	451.3	496.5	530.3
40°	354.0	378.0	411.9	451.3	483.8
42.5°	303.3	332.9	373.8	407.6	437.2
45°	259.5	289.1	335.7	365.3	390.7
47.5°	227.1	251.1	296.2	321.6	342.7
50°	203.1	221.4	262.3	280.7	294.8
52.5°	183.4	201.7	229.9	242.6	246.8
55°	165.0	183.4	200.3	204.5	201.7
57.5°	146.7	166.4	176.3	172.1	172.1
60°	131.2	152.3	155.2	149.5	149.5
62.5°	115.7	136.8	136.8	129.8	129.8
65°	101.6	121.3	118.5	112.8	111.4
67.5°	88.9	107.2	103.0	97.3	95.9
70°	76.2	93.1	88.9	81.8	80.4
72.5°	64.9	80.4	74.8	69.1	66.3
75°	53.6	66.3	63.5	56.4	53.6
77.5°	43.7	53.6	50.8	45.1	42.3
80°	33.9	42.3	40.9	35.3	32.4
82.5°	25.4	32.4	31.0	26.8	22.6
85°	16.9	22.6	21.2	18.3	14.1
87.5°	8.5	15.5	14.1	12.7	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)