

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: P1057864

Luminaire Tested: S122RDR-S1005D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057864
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-S1005D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

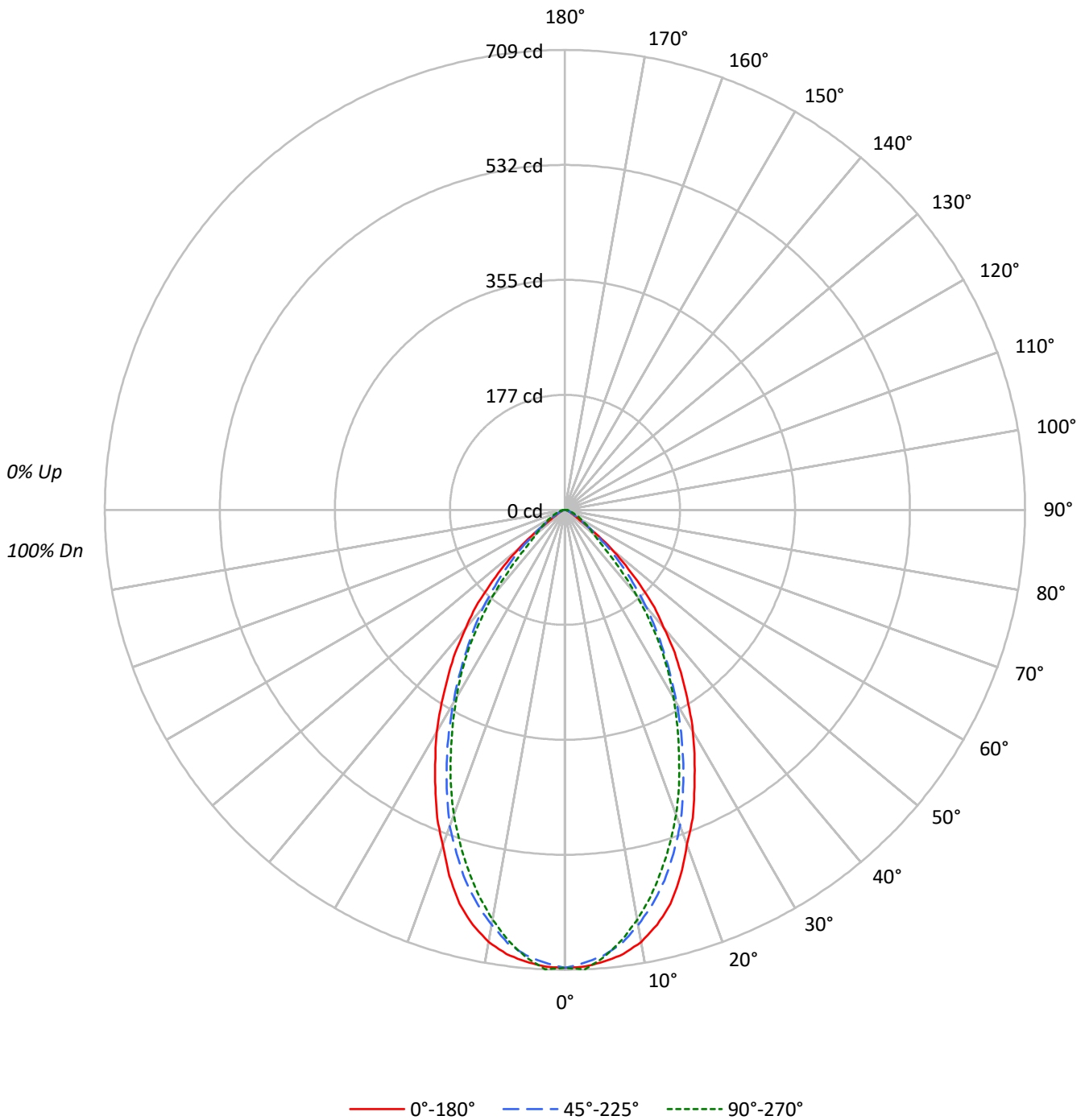
Lumens per Lamp: N/A
Luminaire Lumens: 759.4 lumens
Efficiency: N/A
Efficacy: 18.2 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	80	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°	13029	13029	13029
5°	12948	12766	12818
10°	12676	12174	12016
15°	12008	11307	10984
20°	10792	10184	9824
25°	9612	8781	8466
30°	8408	7328	7117
35°	7080	5936	5746
40°	5704	4685	4141
45°	4267	3385	2463
50°	2670	2185	1619
55°	907	1177	1316
60°	520	727	1041
65°	371	493	799
70°	302	378	610
75°	200	299	499
80°	149	298	446
85°	0	0	296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4267 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	8.6
10°-20°	166.6	21.9
20°-30°	200.6	26.4
30°-40°	171.4	22.6
40°-50°	100.4	13.2
50°-60°	36.4	4.8
60°-70°	12.9	1.7
70°-80°	5.1	0.7
80°-90°	0.9	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°	432.3	56.9
0°-40°	603.7	79.5
0°-60°	740.4	97.5
0°-90°	759.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	699	700	689	692	692	66
15°	629	619	592	581	575	175
25°	472	452	431	424	416	217
35°	314	290	264	261	255	196
45°	164	147	130	108	94	126
55°	28	40	37	38	41	35
65°	8	10	11	16	18	9
75°	3	4	4	6	7	4
85°	0	0	0	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.1	706.1	706.1	706.1	706.1
2.5°	704.7	706.1	699.0	706.1	708.9
5°	699.0	700.4	689.2	692.0	692.0
7.5°	690.6	689.2	673.7	670.9	669.4
10°	676.5	672.3	649.7	645.5	641.3
12.5°	655.4	646.9	622.9	615.9	610.3
15°	628.6	618.7	591.9	580.7	575.0
17.5°	591.9	580.7	555.3	544.0	538.4
20°	549.6	538.4	518.6	506.0	500.3
22.5°	514.4	496.1	475.0	466.5	459.4
25°	472.1	452.4	431.3	424.2	415.8
27.5°	432.7	408.7	387.6	381.9	374.9
30°	394.6	369.3	343.9	343.9	334.0
32.5°	353.7	329.8	303.0	301.6	296.0
35°	314.3	290.3	263.5	260.7	255.1
37.5°	277.6	253.7	228.3	219.9	212.8
40°	236.8	215.6	194.5	180.4	171.9
42.5°	204.4	180.4	159.3	142.3	131.1
45°	163.5	146.6	129.7	108.5	94.4
47.5°	126.8	115.6	101.5	77.5	70.5
50°	93.0	87.4	76.1	57.8	56.4
52.5°	59.2	62.0	55.0	45.1	49.3
55°	28.2	39.5	36.6	38.1	40.9
57.5°	18.3	19.7	26.8	31.0	33.8
60°	14.1	14.1	19.7	25.4	28.2
62.5°	11.3	11.3	15.5	21.1	22.5
65°	8.5	9.9	11.3	15.5	18.3
67.5°	7.0	7.0	8.5	12.7	14.1
70°	5.6	5.6	7.0	9.9	11.3
72.5°	4.2	4.2	5.6	8.5	8.5
75°	2.8	4.2	4.2	5.6	7.0
77.5°	2.8	2.8	2.8	4.2	5.6
80°	1.4	1.4	2.8	2.8	4.2
82.5°	1.4	1.4	1.4	1.4	2.8
85°	0.0	0.0	0.0	1.4	1.4
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)