

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: P1057849

Luminaire Tested: S122RDR-S1005D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-19)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D935-X4F0-XX-UDD-WVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

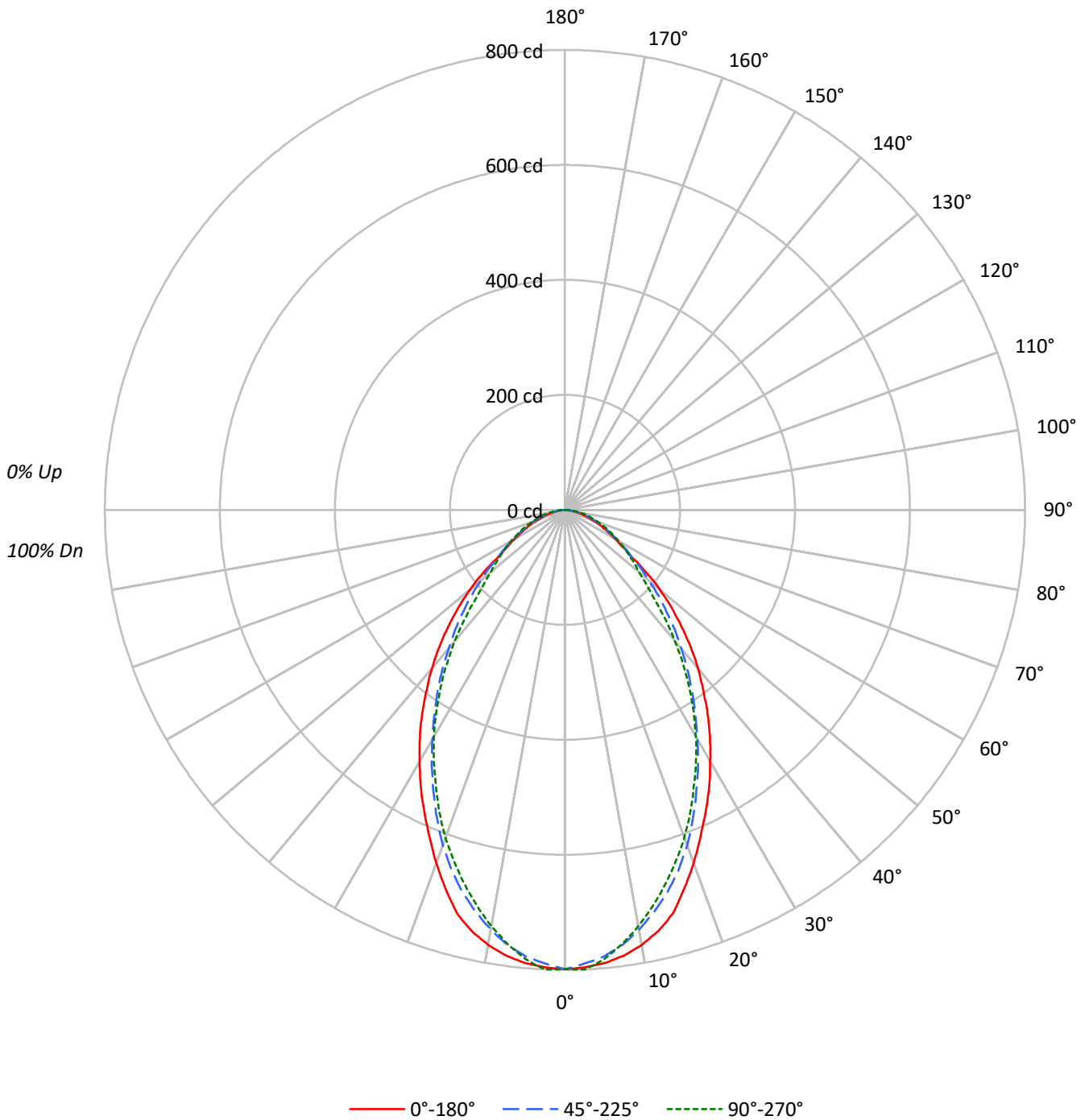
Lumens per Lamp: N/A
Luminaire Lumens: 1213.2 lumens
Efficiency: N/A
Efficacy: 29.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14742	14742	14742
5°	14655	14444	14539
10°	14396	13895	13777
15°	13875	13147	12880
20°	12838	12190	11916
25°	11784	11007	10799
30°	10760	9812	9703
35°	9743	8682	8481
40°	8672	7568	7171
45°	7469	6506	5744
50°	6172	5477	4820
55°	4462	4543	4337
60°	3709	3897	3945
65°	3166	3388	3611
70°	2606	3021	3296
75°	2174	2538	2994
80°	1626	2030	2699
85°	529	1080	2414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7469 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	6.1
10°-20°	194.5	16.0
20°-30°	251.7	20.7
30°-40°	246.8	20.3
40°-50°	194.4	16.0
50°-60°	127.4	10.5
60°-70°	77.6	6.4
70°-80°	38.8	3.2
80°-90°	8.3	0.7
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°	520.0	42.9
0°-40°	766.8	63.2
0°-60°	1088.6	89.7
0°-90°	1213.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	791	791	780	785	785	75
15°	726	716	688	679	674	202
25°	579	560	541	538	530	266
35°	432	408	385	384	376	270
45°	286	268	249	232	220	221
55°	139	146	141	136	135	132
65°	72	74	78	81	83	72
75°	30	32	36	41	42	32
85°	2	4	5	9	11	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.9	798.9	798.9	798.9	798.9
2.5°	796.3	797.6	789.9	797.6	800.1
5°	791.2	791.2	779.8	784.9	784.9
7.5°	782.3	781.0	763.2	763.2	762.0
10°	768.3	763.2	741.6	737.8	735.3
12.5°	750.5	741.6	716.2	709.8	706.0
15°	726.3	716.2	688.2	679.3	674.2
17.5°	690.7	680.6	656.4	646.2	641.1
20°	653.8	638.6	620.8	611.9	606.8
22.5°	615.7	597.9	581.3	575.0	569.9
25°	578.8	559.7	540.6	538.1	530.4
27.5°	543.2	520.3	501.2	499.9	493.6
30°	505.0	480.8	460.5	461.8	455.4
32.5°	469.4	446.5	422.3	423.6	416.0
35°	432.5	408.3	385.4	384.2	376.5
37.5°	394.3	371.4	349.8	344.7	337.1
40°	360.0	337.1	314.2	305.3	297.7
42.5°	323.1	302.8	282.4	268.4	258.2
45°	286.2	268.4	249.3	231.5	220.1
47.5°	250.6	236.6	220.1	198.4	190.8
50°	215.0	204.8	190.8	171.7	167.9
52.5°	178.1	174.3	165.4	152.6	151.4
55°	138.7	146.3	141.2	136.1	134.8
57.5°	117.0	118.3	122.1	120.8	120.8
60°	100.5	100.5	105.6	106.9	106.9
62.5°	85.2	86.5	91.6	94.1	94.1
65°	72.5	73.8	77.6	81.4	82.7
67.5°	59.8	62.3	66.1	70.0	71.2
70°	48.3	50.9	56.0	59.8	61.1
72.5°	39.4	40.7	45.8	49.6	50.9
75°	30.5	31.8	35.6	40.7	42.0
77.5°	21.6	24.2	28.0	31.8	34.3
80°	15.3	16.5	19.1	24.2	25.4
82.5°	8.9	10.2	12.7	16.5	17.8
85°	2.5	3.8	5.1	8.9	11.4
87.5°	0.0	0.0	0.0	2.5	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)