

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: P1057845

Luminaire Tested: S122RDR-S1005D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-57)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D935-X4F0-XX-UDD-BVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

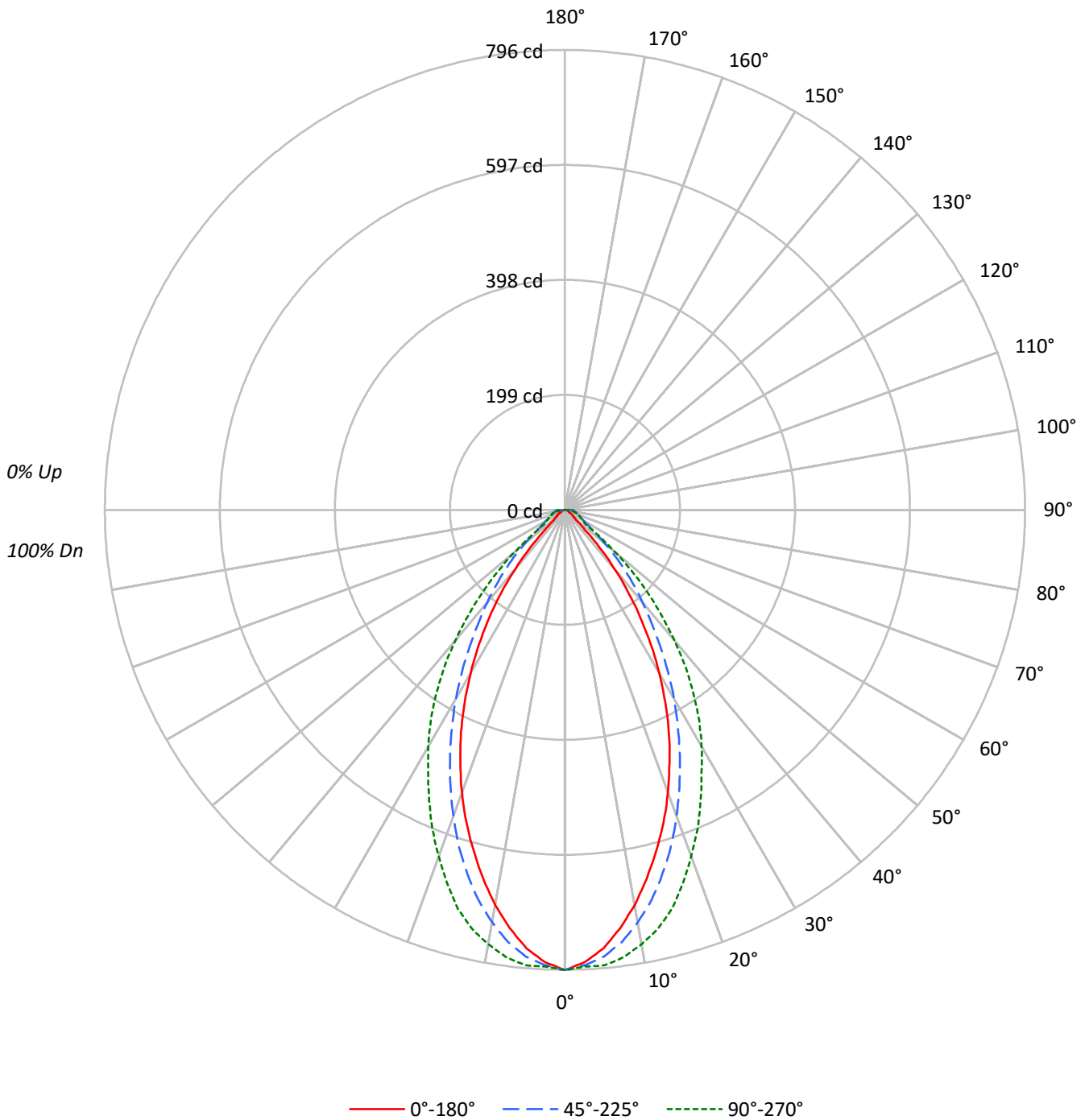
Lumens per Lamp: N/A
Luminaire Lumens: 866.7 lumens
Efficiency: N/A
Efficacy: 20.7 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.96 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61
6	82	72	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52
8	73	62	55	51	72	62	55	51	60	54	50	59	54	50	58	53	50	48
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45
10	66	55	48	44	64	54	48	44	53	48	44	53	47	43	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14694	14694	14694
5°	14113	14372	14655
10°	13011	13584	14300
15°	11659	12461	13655
20°	10233	11083	12534
25°	8665	9571	11310
30°	6950	8035	10072
35°	5138	6429	8724
40°	3223	5034	7089
45°	1263	3789	5253
50°	623	2561	3218
55°	492	1679	1435
60°	376	1362	1318
65°	279	1279	1279
70°	345	1306	1306
75°	364	1454	1362
80°	542	1891	1488
85°	1080	3239	2160

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 87.5°
 Luminance: 5922 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	8.4
10°-20°	183.9	21.2
20°-30°	220.0	25.4
30°-40°	185.1	21.4
40°-50°	105.4	12.2
50°-60°	41.6	4.8
60°-70°	26.2	3.0
70°-80°	19.5	2.2
80°-90°	12.4	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°	476.6	55.0
0°-40°	661.7	76.3
0°-60°	808.7	93.3
0°-90°	866.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	866.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	762	778	776	785	791	71
15°	610	632	652	691	715	170
25°	426	445	470	519	556	194
35°	228	248	285	347	387	141
45°	48	85	145	182	201	46
55°	15	33	52	54	45	14
65°	6	29	29	28	29	7
75°	5	20	20	19	19	6
85°	5	14	15	14	10	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.3	796.3	796.3	796.3	796.3
2.5°	783.6	797.6	788.7	790.0	791.2
5°	761.9	778.5	775.9	784.9	791.2
7.5°	730.1	747.9	754.3	769.6	781.0
10°	694.4	714.8	725.0	749.2	763.2
12.5°	653.6	676.6	691.8	722.4	742.8
15°	610.3	632.0	652.3	690.6	714.8
17.5°	567.0	588.6	610.3	652.3	677.8
20°	521.1	541.5	564.4	609.0	638.3
22.5°	472.7	494.4	517.3	563.2	598.8
25°	425.6	444.7	470.1	518.6	555.5
27.5°	375.9	395.0	423.0	472.7	512.2
30°	326.2	345.3	377.1	428.1	472.7
32.5°	276.5	296.9	331.3	387.3	431.9
35°	228.1	248.5	285.4	346.6	387.3
37.5°	180.9	203.9	244.6	304.5	342.7
40°	133.8	160.5	209.0	262.5	294.3
42.5°	89.2	122.3	175.8	220.4	247.2
45°	48.4	85.4	145.2	182.2	201.3
47.5°	26.8	54.8	115.9	145.2	156.7
50°	21.7	38.2	89.2	110.8	112.1
52.5°	17.8	34.4	66.3	79.0	72.6
55°	15.3	33.1	52.2	53.5	44.6
57.5°	12.7	31.9	43.3	38.2	38.2
60°	10.2	31.9	36.9	34.4	35.7
62.5°	7.6	31.9	33.1	30.6	31.9
65°	6.4	29.3	29.3	28.0	29.3
67.5°	6.4	26.8	26.8	25.5	26.8
70°	6.4	25.5	24.2	24.2	24.2
72.5°	5.1	22.9	22.9	21.7	21.7
75°	5.1	20.4	20.4	19.1	19.1
77.5°	5.1	19.1	19.1	17.8	16.6
80°	5.1	16.6	17.8	16.6	14.0
82.5°	5.1	15.3	16.6	15.3	11.5
85°	5.1	14.0	15.3	14.0	10.2
87.5°	3.8	14.0	14.0	11.5	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)