

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: P1058088

Luminaire Tested: S122RDR-S675D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058088
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-S675D935-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

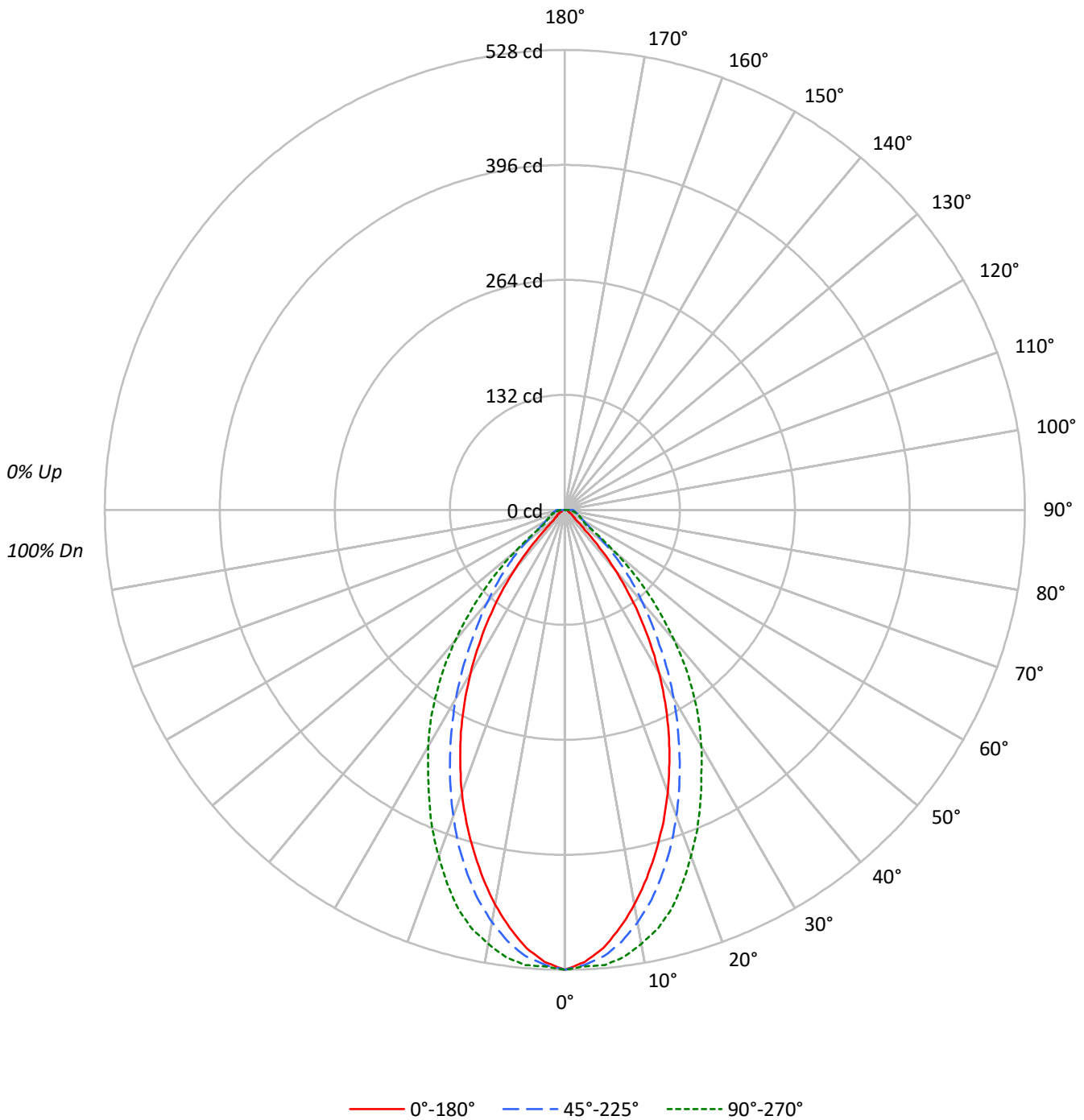
Lumens per Lamp: N/A
Luminaire Lumens: 574.7 lumens
Efficiency: N/A
Efficacy: 22.3 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.96 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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°	9743	9743	9743
5°	9358	9530	9717
10°	8627	9007	9481
15°	7731	8262	9053
20°	6784	7350	8312
25°	5746	6346	7499
30°	4609	5329	6678
35°	3406	4262	5785
40°	2137	3339	4702
45°	838	2513	3484
50°	413	1697	2133
55°	325	1113	952
60°	251	904	875
65°	183	847	847
70°	227	869	869
75°	242	962	905
80°	361	1254	988
85°	720	2138	1440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 87.5°
 Luminance: 3934 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	8.4
10°-20°	121.9	21.2
20°-30°	145.9	25.4
30°-40°	122.8	21.4
40°-50°	69.9	12.2
50°-60°	27.6	4.8
60°-70°	17.4	3.0
70°-80°	12.9	2.2
80°-90°	8.2	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°	316.0	55.0
0°-40°	438.8	76.3
0°-60°	536.2	93.3
0°-90°	574.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	574.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	505	516	514	520	525	47
15°	405	419	432	458	474	113
25°	282	295	312	344	368	129
35°	151	165	189	230	257	94
45°	32	57	96	121	134	30
55°	10	22	35	36	30	9
65°	4	19	19	19	19	5
75°	3	14	14	13	13	4
85°	3	9	10	9	7	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	528.0	528.0	528.0	528.0	528.0
2.5°	519.6	528.9	522.9	523.8	524.6
5°	505.2	516.2	514.5	520.4	524.6
7.5°	484.1	495.9	500.1	510.3	517.9
10°	460.4	473.9	480.7	496.8	506.0
12.5°	433.4	448.6	458.7	479.0	492.5
15°	404.7	419.0	432.5	457.9	473.9
17.5°	375.9	390.3	404.7	432.5	449.4
20°	345.5	359.0	374.3	403.8	423.3
22.5°	313.4	327.8	343.0	373.4	397.1
25°	282.2	294.8	311.7	343.8	368.3
27.5°	249.2	261.9	280.5	313.4	339.6
30°	216.3	228.9	250.1	283.9	313.4
32.5°	183.3	196.8	219.7	256.8	286.4
35°	151.2	164.7	189.2	229.8	256.8
37.5°	120.0	135.2	162.2	201.9	227.3
40°	88.7	106.4	138.6	174.0	195.2
42.5°	59.1	81.1	116.6	146.2	163.9
45°	32.1	56.6	96.3	120.8	133.5
47.5°	17.7	36.3	76.9	96.3	103.9
50°	14.4	25.3	59.1	73.5	74.3
52.5°	11.8	22.8	43.9	52.4	48.2
55°	10.1	22.0	34.6	35.5	29.6
57.5°	8.4	21.1	28.7	25.3	25.3
60°	6.8	21.1	24.5	22.8	23.7
62.5°	5.1	21.1	22.0	20.3	21.1
65°	4.2	19.4	19.4	18.6	19.4
67.5°	4.2	17.7	17.7	16.9	17.7
70°	4.2	16.9	16.1	16.1	16.1
72.5°	3.4	15.2	15.2	14.4	14.4
75°	3.4	13.5	13.5	12.7	12.7
77.5°	3.4	12.7	12.7	11.8	11.0
80°	3.4	11.0	11.8	11.0	9.3
82.5°	3.4	10.1	11.0	10.1	7.6
85°	3.4	9.3	10.1	9.3	6.8
87.5°	2.5	9.3	9.3	7.6	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)