

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: P1058078

Luminaire Tested: S122RDR-S675D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-60)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

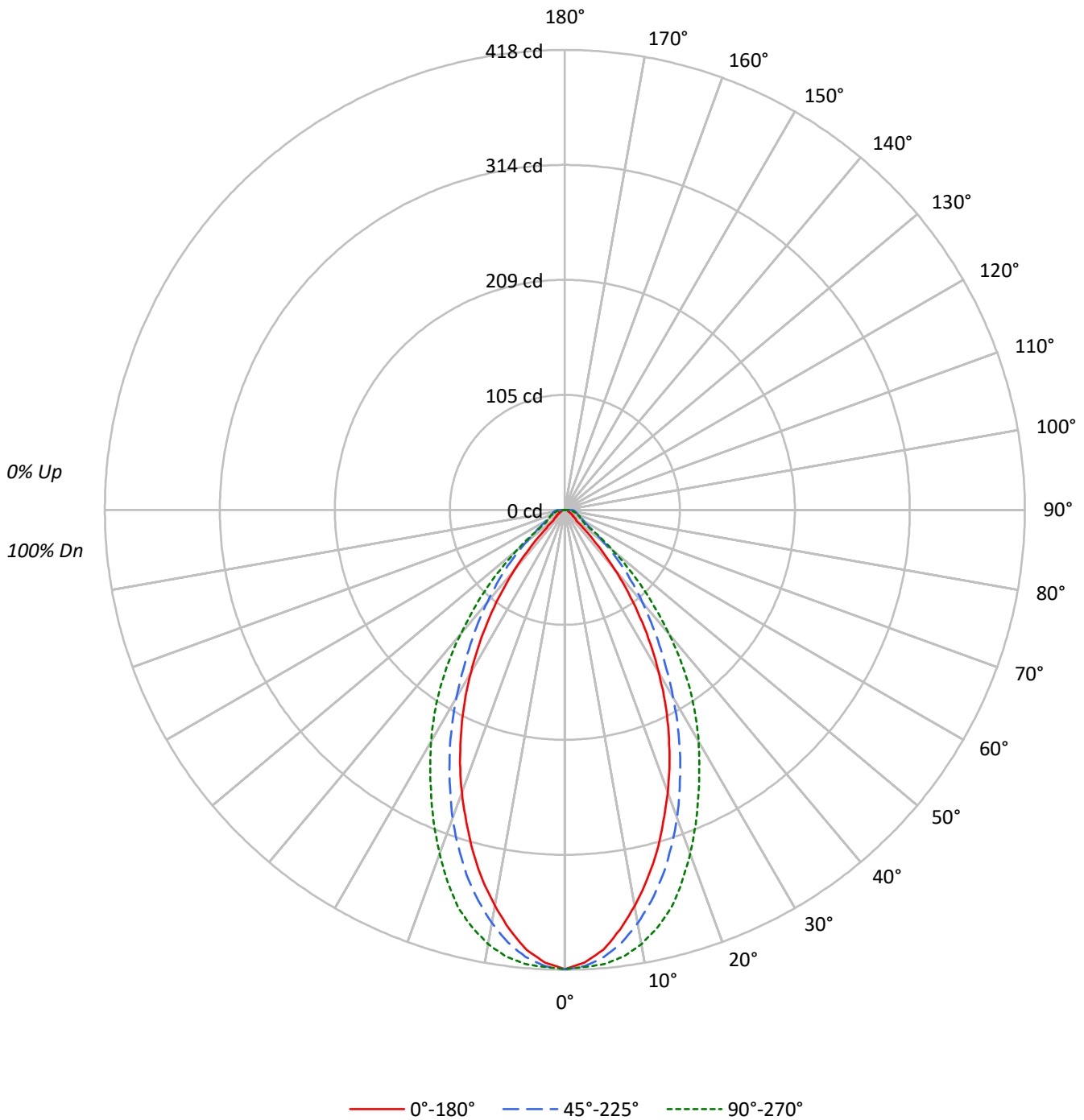
Lumens per Lamp: N/A
Luminaire Lumens: 450.1 lumens
Efficiency: N/A
Efficacy: 17.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.95 / 0.9
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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	77	82	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	68	64	71	67	63	61				
6	82	72	65	60	80	71	64	59	69	63	59	68	63	59	66	62	58	57				
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52				
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48				
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45				
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7704	7704	7704
5°	7437	7556	7674
10°	6848	7148	7508
15°	6157	6570	7150
20°	5371	5858	6533
25°	4542	5047	5845
30°	3631	4193	5180
35°	2685	3370	4451
40°	1696	2640	3546
45°	668	1983	2610
50°	344	1332	1608
55°	283	875	721
60°	207	709	650
65°	175	664	664
70°	173	691	647
75°	228	799	684
80°	340	1020	765
85°	508	1694	1016

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 87.5°
 Luminance: 3384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	8.5
10°-20°	96.4	21.4
20°-30°	114.6	25.5
30°-40°	95.4	21.2
40°-50°	53.3	11.8
50°-60°	21.5	4.8
60°-70°	13.8	3.1
70°-80°	10.3	2.3
80°-90°	6.6	1.5
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°	249.2	55.4
0°-40°	344.6	76.6
0°-60°	419.4	93.2
0°-90°	450.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	450.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	402	409	408	411	414	37
15°	322	332	344	362	374	90
25°	223	232	248	267	287	102
35°	119	130	150	174	198	74
45°	26	43	76	89	100	24
55°	9	18	27	26	22	8
65°	4	16	15	14	15	4
75°	3	11	11	10	10	3
85°	2	7	8	7	5	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	417.5	417.5	417.5	417.5	417.5
2.5°	411.9	418.3	415.1	415.1	415.9
5°	401.5	408.7	407.9	411.1	414.3
7.5°	384.7	392.7	396.7	403.9	409.5
10°	365.5	374.3	381.5	392.7	400.7
12.5°	344.7	353.5	363.9	378.3	388.7
15°	322.3	331.9	343.9	361.5	374.3
17.5°	297.5	307.9	321.5	340.7	354.3
20°	273.5	283.9	298.3	317.5	332.7
22.5°	248.7	257.5	272.7	291.9	310.3
25°	223.1	231.9	247.9	267.1	287.1
27.5°	197.6	206.4	222.3	242.3	264.7
30°	170.4	180.0	196.8	219.1	243.1
32.5°	144.8	154.4	172.0	196.8	220.7
35°	119.2	130.4	149.6	174.4	197.6
37.5°	94.4	107.2	128.8	152.0	172.8
40°	70.4	84.0	109.6	129.6	147.2
42.5°	46.4	62.4	92.0	108.8	122.4
45°	25.6	43.2	76.0	88.8	100.0
47.5°	14.4	28.0	60.0	70.4	76.8
50°	12.0	20.8	46.4	53.6	56.0
52.5°	9.6	19.2	35.2	39.2	37.6
55°	8.8	18.4	27.2	26.4	22.4
57.5°	7.2	18.4	21.6	19.2	19.2
60°	5.6	17.6	19.2	16.8	17.6
62.5°	4.8	16.8	17.6	16.0	16.0
65°	4.0	16.0	15.2	14.4	15.2
67.5°	3.2	14.4	14.4	13.6	13.6
70°	3.2	13.6	12.8	12.0	12.0
72.5°	3.2	12.0	12.0	11.2	11.2
75°	3.2	11.2	11.2	10.4	9.6
77.5°	3.2	9.6	10.4	9.6	8.8
80°	3.2	8.8	9.6	8.8	7.2
82.5°	3.2	8.0	8.8	8.0	6.4
85°	2.4	7.2	8.0	7.2	4.8
87.5°	2.4	7.2	8.0	6.4	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)