

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: P1058100

Luminaire Tested: S122RDR-S675D940-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D940-X4F0-XX-UDD-SVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

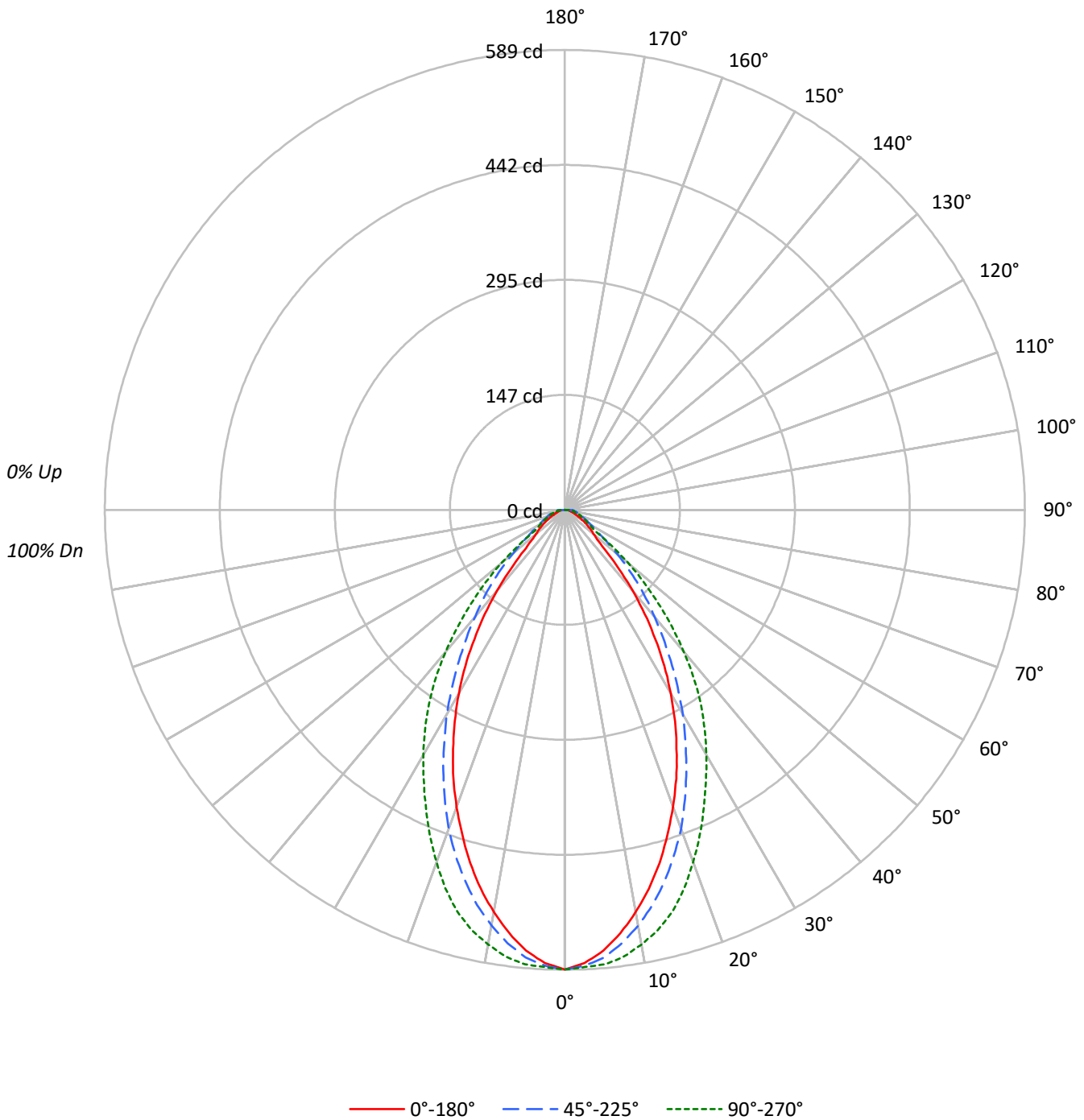
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 714.1 lumens
Efficiency: N/A
Efficacy: 27.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10863	10863	10863
5°	10499	10662	10823
10°	9801	10129	10588
15°	8940	9408	10176
20°	7953	8538	9430
25°	6892	7499	8568
30°	5778	6430	7717
35°	4553	5321	6837
40°	3245	4300	5711
45°	1918	3400	4428
50°	1381	2460	3014
55°	1155	1773	1518
60°	937	1421	1292
65°	764	1262	1183
70°	658	1225	1133
75°	620	1248	1119
80°	648	1488	1211
85°	932	2414	1482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4428 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	7.6
10°-20°	138.7	19.4
20°-30°	171.1	24.0
30°-40°	152.2	21.3
40°-50°	97.2	13.6
50°-60°	46.7	6.5
60°-70°	27.4	3.8
70°-80°	17.5	2.4
80°-90°	9.3	1.3
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°	363.9	51.0
0°-40°	516.1	72.3
0°-60°	659.9	92.4
0°-90°	714.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	714.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	567	577	576	579	584	53
15°	468	479	492	515	533	130
25°	338	352	368	394	421	155
35°	202	218	236	272	304	126
45°	74	95	130	151	170	62
55°	36	46	55	53	47	32
65°	18	32	29	26	27	18
75°	9	19	18	17	16	10
85°	4	10	11	10	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	588.7	588.7	588.7	588.7	588.7
2.5°	580.8	590.5	584.3	584.3	586.1
5°	566.8	577.3	575.6	579.1	584.3
7.5°	546.7	558.1	559.8	569.5	577.3
10°	523.1	535.4	540.6	554.6	565.1
12.5°	496.9	509.1	518.7	536.2	551.1
15°	468.0	479.4	492.5	515.2	532.7
17.5°	436.5	451.4	464.5	488.1	508.2
20°	405.0	419.0	434.8	457.5	480.2
22.5°	372.6	385.8	401.5	425.1	451.4
25°	338.5	351.7	368.3	394.5	420.8
27.5°	305.3	318.4	334.2	363.0	391.0
30°	271.2	284.3	301.8	331.5	362.2
32.5°	237.1	251.1	268.6	300.9	333.3
35°	202.1	217.8	236.2	272.1	303.5
37.5°	168.0	183.7	206.4	241.4	271.2
40°	134.7	153.1	178.5	209.9	237.1
42.5°	102.3	122.5	154.0	179.3	202.9
45°	73.5	95.3	130.3	151.3	169.7
47.5°	56.0	71.7	107.6	124.2	137.3
50°	48.1	57.7	85.7	98.0	105.0
52.5°	42.0	50.7	68.2	74.4	74.4
55°	35.9	46.4	55.1	53.4	47.2
57.5°	30.6	42.0	45.5	38.5	40.2
60°	25.4	38.5	38.5	34.1	35.0
62.5°	21.0	35.9	33.2	29.7	30.6
65°	17.5	31.5	28.9	26.2	27.1
67.5°	14.0	28.0	25.4	23.6	23.6
70°	12.2	25.4	22.7	21.0	21.0
72.5°	10.5	21.9	20.1	18.4	18.4
75°	8.7	19.2	17.5	16.6	15.7
77.5°	7.9	16.6	15.7	14.0	13.1
80°	6.1	14.0	14.0	13.1	11.4
82.5°	5.2	12.2	12.2	11.4	9.6
85°	4.4	10.5	11.4	9.6	7.0
87.5°	3.5	9.6	9.6	7.9	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)