

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: P1058091

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058091
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-S675D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

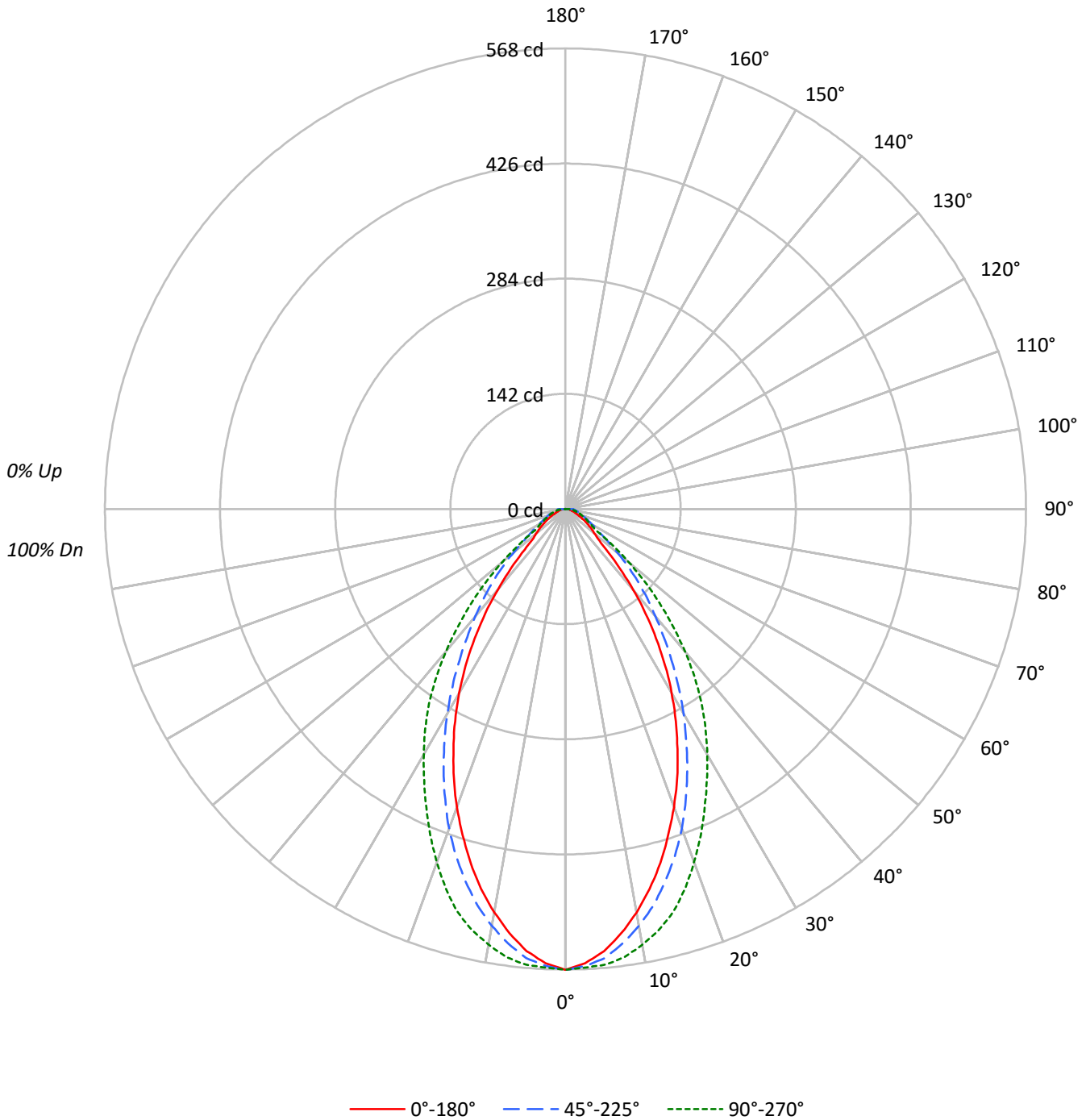
Lumens per Lamp: N/A
Luminaire Lumens: 689.5 lumens
Efficiency: N/A
Efficacy: 26.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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°	10488	10488	10488
5°	10138	10295	10451
10°	9464	9781	10223
15°	8633	9084	9827
20°	7680	8243	9106
25°	6656	7240	8272
30°	5578	6209	7451
35°	4395	5138	6602
40°	3134	4150	5514
45°	1850	3285	4277
50°	1335	2377	2911
55°	1113	1711	1467
60°	904	1373	1247
65°	738	1218	1144
70°	637	1187	1095
75°	599	1205	1084
80°	627	1435	1169
85°	889	2329	1440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4277 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	7.6
10°-20°	134.0	19.4
20°-30°	165.2	24.0
30°-40°	147.0	21.3
40°-50°	93.8	13.6
50°-60°	45.1	6.5
60°-70°	26.4	3.8
70°-80°	16.9	2.4
80°-90°	9.0	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°	351.3	51.0
0°-40°	498.3	72.3
0°-60°	637.2	92.4
0°-90°	689.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	689.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	547	558	556	559	564	51
15°	452	463	476	498	514	126
25°	327	340	356	381	406	150
35°	195	210	228	263	293	121
45°	71	92	126	146	164	60
55°	35	45	53	52	46	31
65°	17	30	28	25	26	17
75°	8	19	17	16	15	9
85°	4	10	11	9	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.4	568.4	568.4	568.4	568.4
2.5°	560.8	570.1	564.2	564.2	565.9
5°	547.3	557.5	555.8	559.1	564.2
7.5°	527.9	538.9	540.6	549.9	557.5
10°	505.1	516.9	522.0	535.5	545.6
12.5°	479.8	491.6	500.9	517.8	532.1
15°	451.9	462.9	475.5	497.5	514.4
17.5°	421.5	435.8	448.5	471.3	490.7
20°	391.1	404.6	419.8	441.7	463.7
22.5°	359.8	372.5	387.7	410.5	435.8
25°	326.9	339.5	355.6	380.9	406.3
27.5°	294.8	307.4	322.7	350.5	377.6
30°	261.8	274.5	291.4	320.1	349.7
32.5°	228.9	242.4	259.3	290.6	321.8
35°	195.1	210.3	228.1	262.7	293.1
37.5°	162.2	177.4	199.3	233.1	261.8
40°	130.1	147.8	172.3	202.7	228.9
42.5°	98.8	118.2	148.7	173.1	196.0
45°	70.9	92.1	125.9	146.1	163.9
47.5°	54.1	69.3	103.9	119.9	132.6
50°	46.5	55.7	82.8	94.6	101.4
52.5°	40.5	49.0	65.9	71.8	71.8
55°	34.6	44.8	53.2	51.5	45.6
57.5°	29.6	40.5	43.9	37.2	38.9
60°	24.5	37.2	37.2	32.9	33.8
62.5°	20.3	34.6	32.1	28.7	29.6
65°	16.9	30.4	27.9	25.3	26.2
67.5°	13.5	27.0	24.5	22.8	22.8
70°	11.8	24.5	22.0	20.3	20.3
72.5°	10.1	21.1	19.4	17.7	17.7
75°	8.4	18.6	16.9	16.0	15.2
77.5°	7.6	16.0	15.2	13.5	12.7
80°	5.9	13.5	13.5	12.7	11.0
82.5°	5.1	11.8	11.8	11.0	9.3
85°	4.2	10.1	11.0	9.3	6.8
87.5°	3.4	9.3	9.3	7.6	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)