

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: P1058071

Luminaire Tested: S122RDR-S675D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058071  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S675D927-X4F0-XX-UDD-SVL-B  
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

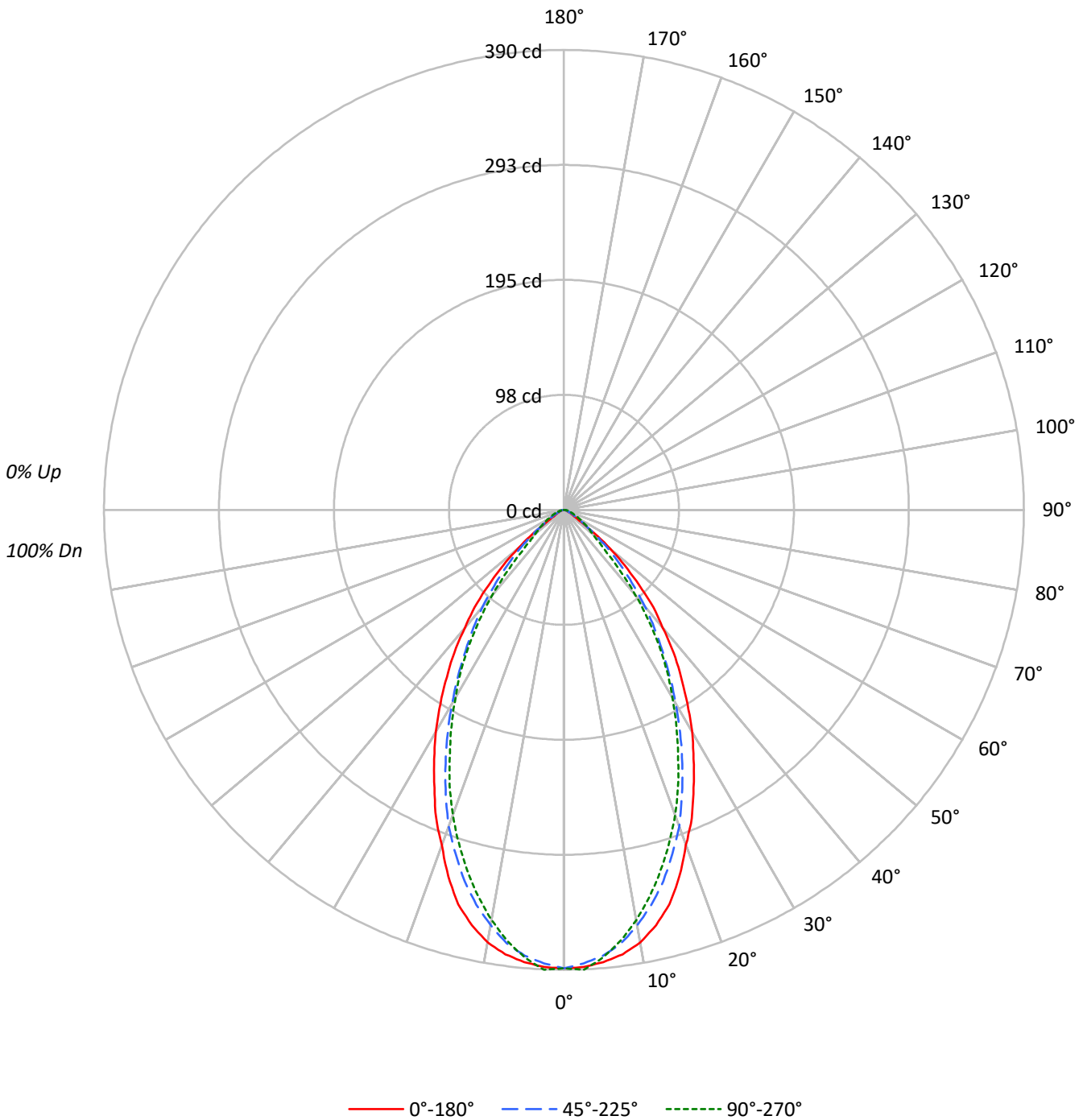
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 418.1 lumens  
Efficiency: N/A  
Efficacy: 16.2 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.85 / 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84				84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76				76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59				59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54				54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50				50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47				47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44				44

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7174	7174	7174
5°	7129	7029	7057
10°	6980	6702	6616
15°	6612	6226	6048
20°	5942	5608	5410
25°	5294	4836	4660
30°	4630	4033	3918
35°	3897	3269	3165
40°	3141	2580	2281
45°	2349	1863	1357
50°	1470	1203	890
55°	499	650	724
60°	288	402	572
65°	205	271	441
70°	167	210	334
75°	114	164	278
80°	85	170	244
85°	0	0	169

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2349 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.8	8.6
10°-20°	91.7	21.9
20°-30°	110.4	26.4
30°-40°	94.4	22.6
40°-50°	55.3	13.2
50°-60°	20.0	4.8
60°-70°	7.1	1.7
70°-80°	2.8	0.7
80°-90°	0.5	0.1
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°	238.0	56.9
0°-40°	332.4	79.5
0°-60°	407.7	97.5
0°-90°	418.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	418.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	389	389	389	389	389	
5°	385	386	380	381	381	36
15°	346	341	326	320	317	96
25°	260	249	238	234	229	119
35°	173	160	145	144	140	108
45°	90	81	71	60	52	69
55°	16	22	20	21	22	19
65°	5	5	6	8	10	5
75°	2	2	2	3	4	2
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	388.8	388.8	388.8	388.8	388.8
2.5°	388.0	388.8	384.9	388.8	390.3
5°	384.9	385.7	379.5	381.0	381.0
7.5°	380.2	379.5	370.9	369.4	368.6
10°	372.5	370.1	357.7	355.4	353.1
12.5°	360.8	356.2	343.0	339.1	336.0
15°	346.1	340.7	325.9	319.7	316.6
17.5°	325.9	319.7	305.7	299.5	296.4
20°	302.6	296.4	285.6	278.6	275.5
22.5°	283.2	273.1	261.5	256.8	253.0
25°	260.0	249.1	237.5	233.6	228.9
27.5°	238.2	225.0	213.4	210.3	206.4
30°	217.3	203.3	189.3	189.3	183.9
32.5°	194.8	181.6	166.8	166.1	163.0
35°	173.0	159.9	145.1	143.6	140.5
37.5°	152.9	139.7	125.7	121.1	117.2
40°	130.4	118.7	107.1	99.3	94.7
42.5°	112.5	99.3	87.7	78.4	72.2
45°	90.0	80.7	71.4	59.8	52.0
47.5°	69.8	63.6	55.9	42.7	38.8
50°	51.2	48.1	41.9	31.8	31.0
52.5°	32.6	34.1	30.3	24.8	27.2
55°	15.5	21.7	20.2	21.0	22.5
57.5°	10.1	10.9	14.7	17.1	18.6
60°	7.8	7.8	10.9	14.0	15.5
62.5°	6.2	6.2	8.5	11.6	12.4
65°	4.7	5.4	6.2	8.5	10.1
67.5°	3.9	3.9	4.7	7.0	7.8
70°	3.1	3.1	3.9	5.4	6.2
72.5°	2.3	2.3	3.1	4.7	4.7
75°	1.6	2.3	2.3	3.1	3.9
77.5°	1.6	1.6	1.6	2.3	3.1
80°	0.8	0.8	1.6	1.6	2.3
82.5°	0.8	0.8	0.8	0.8	1.6
85°	0.0	0.0	0.0	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)