

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: P1058053

Luminaire Tested: S122RDR-S675D840-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058053  
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-S675D840-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

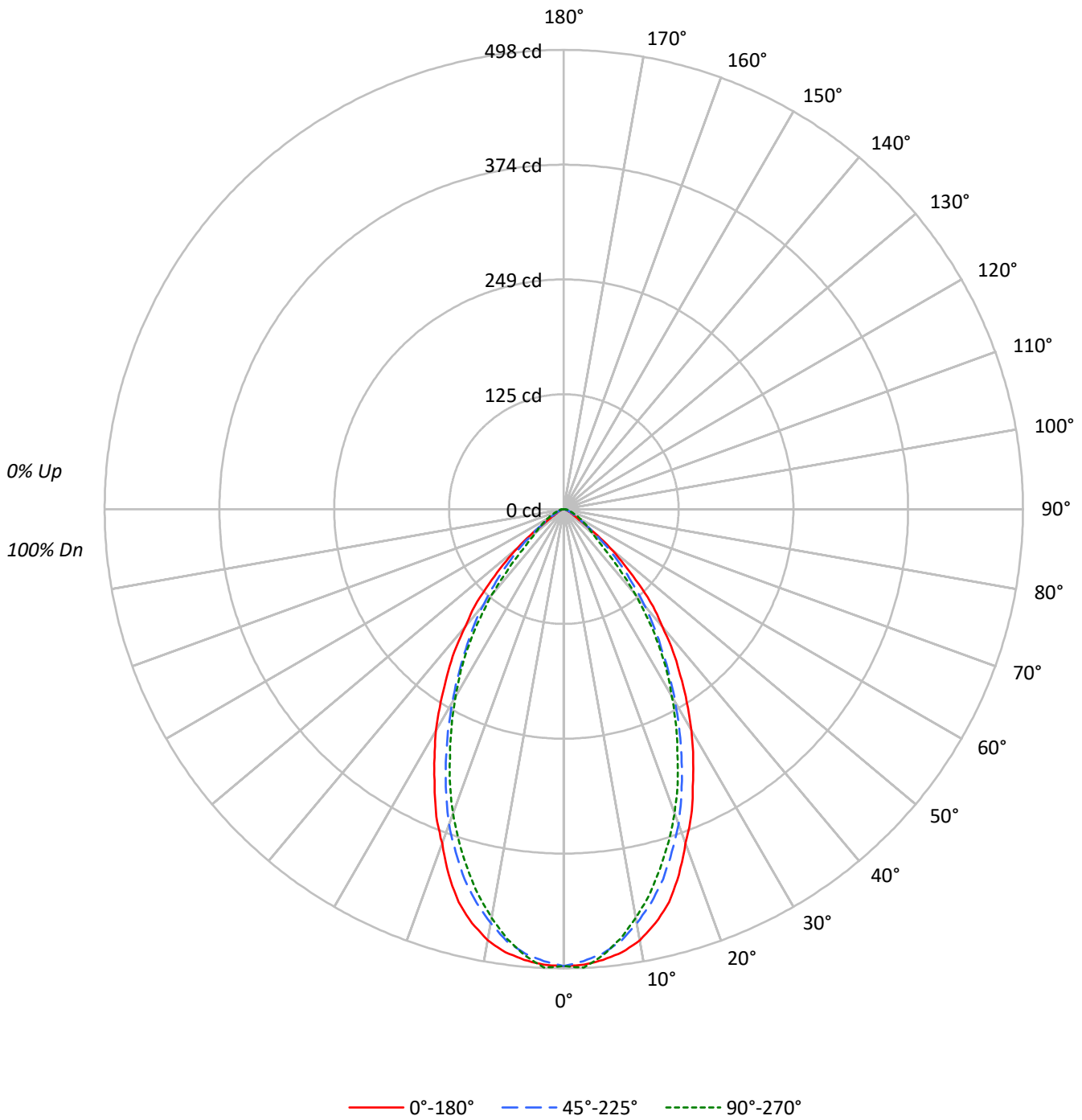
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 533.0 lumens  
Efficiency: N/A  
Efficacy: 20.7 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				
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76				
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59				
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54				
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50				
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47				
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44				

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

	0°	45°	90°
0°	9145	9145	9145
5°	9089	8960	8997
10°	8896	8544	8434
15°	8428	7937	7710
20°	7576	7148	6896
25°	6747	6163	5941
30°	5902	5144	4994
35°	4969	4167	4032
40°	4003	3288	2907
45°	2993	2375	1730
50°	1875	1533	1137
55°	637	827	923
60°	365	509	731
65°	258	345	563
70°	216	264	426
75°	143	214	349
80°	106	213	319
85°	0	0	212

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2993 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.7	8.6
10°-20°	116.9	21.9
20°-30°	140.8	26.4
30°-40°	120.3	22.6
40°-50°	70.5	13.2
50°-60°	25.5	4.8
60°-70°	9.0	1.7
70°-80°	3.6	0.7
80°-90°	0.6	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°	303.4	56.9
0°-40°	423.7	79.5
0°-60°	519.7	97.5
0°-90°	533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	533.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	491	492	484	486	486	46
15°	441	434	416	408	404	123
25°	331	318	303	298	292	152
35°	221	204	185	183	179	138
45°	115	103	91	76	66	89
55°	20	28	26	27	29	25
65°	6	7	8	11	13	6
75°	2	3	3	4	5	3
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°	495.6	495.6	495.6	495.6	495.6
2.5°	494.6	495.6	490.7	495.6	497.6
5°	490.7	491.6	483.7	485.7	485.7
7.5°	484.7	483.7	472.8	470.9	469.9
10°	474.8	471.9	456.0	453.1	450.1
12.5°	460.0	454.0	437.2	432.3	428.3
15°	441.2	434.3	415.5	407.6	403.6
17.5°	415.5	407.6	389.8	381.8	377.9
20°	385.8	377.9	364.0	355.1	351.2
22.5°	361.1	348.2	333.4	327.4	322.5
25°	331.4	317.5	302.7	297.8	291.8
27.5°	303.7	286.9	272.0	268.1	263.1
30°	277.0	259.2	241.4	241.4	234.4
32.5°	248.3	231.5	212.7	211.7	207.7
35°	220.6	203.8	185.0	183.0	179.0
37.5°	194.9	178.1	160.3	154.3	149.4
40°	166.2	151.3	136.5	126.6	120.7
42.5°	143.4	126.6	111.8	99.9	92.0
45°	114.7	102.9	91.0	76.2	66.3
47.5°	89.0	81.1	71.2	54.4	49.5
50°	65.3	61.3	53.4	40.6	39.6
52.5°	41.5	43.5	38.6	31.7	34.6
55°	19.8	27.7	25.7	26.7	28.7
57.5°	12.9	13.8	18.8	21.8	23.7
60°	9.9	9.9	13.8	17.8	19.8
62.5°	7.9	7.9	10.9	14.8	15.8
65°	5.9	6.9	7.9	10.9	12.9
67.5°	4.9	4.9	5.9	8.9	9.9
70°	4.0	4.0	4.9	6.9	7.9
72.5°	3.0	3.0	4.0	5.9	5.9
75°	2.0	3.0	3.0	4.0	4.9
77.5°	2.0	2.0	2.0	3.0	4.0
80°	1.0	1.0	2.0	2.0	3.0
82.5°	1.0	1.0	1.0	1.0	2.0
85°	0.0	0.0	0.0	1.0	1.0
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)