

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: P1058055

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058055  
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-S675D840-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, 80 CRI LEDS  
Ballast/Driver: -

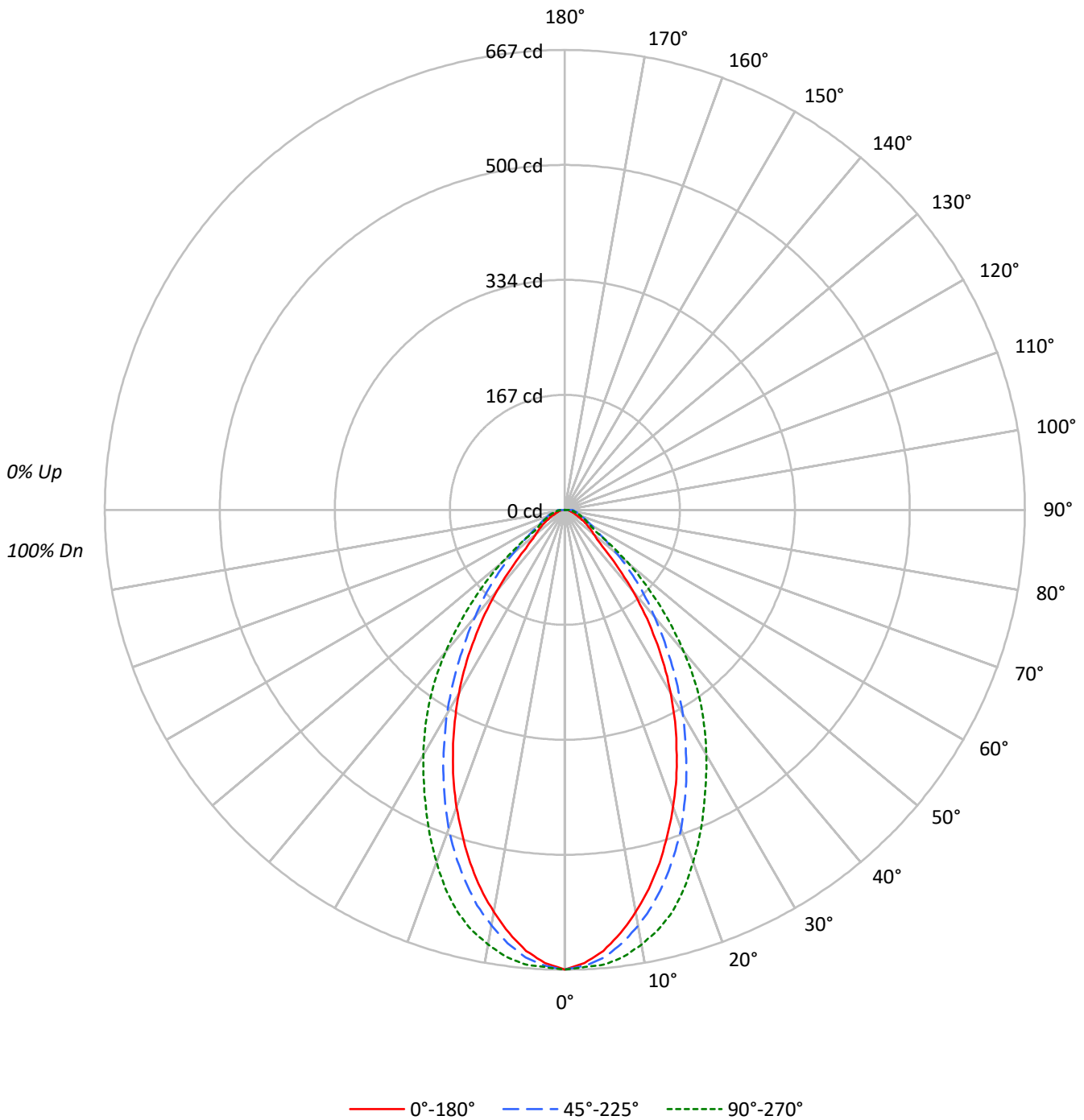
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 808.7 lumens  
Efficiency: N/A  
Efficacy: 31.3 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	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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46				46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42				42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39				39

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

	0°	45°	90°
0°	12302	12302	12302
5°	11892	12075	12258
10°	11100	11471	11992
15°	10125	10654	11525
20°	9007	9669	10680
25°	7806	8492	9702
30°	6543	7283	8738
35°	5154	6026	7745
40°	3676	4868	6468
45°	2171	3852	5016
50°	1565	2787	3413
55°	1306	2007	1721
60°	1059	1609	1461
65°	865	1428	1340
70°	750	1392	1284
75°	706	1412	1269
80°	733	1690	1371
85°	1059	2731	1673

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5016 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.1	7.6
10°-20°	157.1	19.4
20°-30°	193.8	24.0
30°-40°	172.4	21.3
40°-50°	110.0	13.6
50°-60°	52.8	6.5
60°-70°	31.0	3.8
70°-80°	19.8	2.5
80°-90°	10.6	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°	412.1	51.0
0°-40°	584.4	72.3
0°-60°	747.3	92.4
0°-90°	808.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	642	654	652	656	662	60
15°	530	543	558	584	603	148
25°	383	398	417	447	476	175
35°	229	247	268	308	344	142
45°	83	108	148	171	192	70
55°	41	52	62	60	54	37
65°	20	36	33	30	31	20
75°	10	22	20	19	18	11
85°	5	12	13	11	8	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	666.7	666.7	666.7	666.7	666.7
2.5°	657.8	668.7	661.8	661.8	663.8
5°	642.0	653.8	651.9	655.8	661.8
7.5°	619.2	632.0	634.0	644.9	653.8
10°	592.4	606.3	612.2	628.1	640.0
12.5°	562.7	576.6	587.5	607.3	624.1
15°	530.0	542.9	557.7	583.5	603.3
17.5°	494.3	511.2	526.0	552.8	575.6
20°	458.7	474.5	492.4	518.1	543.9
22.5°	422.0	436.9	454.7	481.5	511.2
25°	383.4	398.3	417.1	446.8	476.5
27.5°	345.7	360.6	378.4	411.1	442.8
30°	307.1	322.0	341.8	375.5	410.1
32.5°	268.5	284.3	304.1	340.8	377.4
35°	228.8	246.7	267.5	308.1	343.8
37.5°	190.2	208.0	233.8	273.4	307.1
40°	152.6	173.4	202.1	237.8	268.5
42.5°	115.9	138.7	174.4	203.1	229.8
45°	83.2	108.0	147.6	171.4	192.2
47.5°	63.4	81.2	121.9	140.7	155.5
50°	54.5	65.4	97.1	111.0	118.9
52.5°	47.6	57.5	77.3	84.2	84.2
55°	40.6	52.5	62.4	60.4	53.5
57.5°	34.7	47.6	51.5	43.6	45.6
60°	28.7	43.6	43.6	38.6	39.6
62.5°	23.8	40.6	37.6	33.7	34.7
65°	19.8	35.7	32.7	29.7	30.7
67.5°	15.9	31.7	28.7	26.7	26.7
70°	13.9	28.7	25.8	23.8	23.8
72.5°	11.9	24.8	22.8	20.8	20.8
75°	9.9	21.8	19.8	18.8	17.8
77.5°	8.9	18.8	17.8	15.9	14.9
80°	6.9	15.9	15.9	14.9	12.9
82.5°	5.9	13.9	13.9	12.9	10.9
85°	5.0	11.9	12.9	10.9	7.9
87.5°	4.0	10.9	10.9	8.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)