

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: P1061516

Luminaire Tested: S125RDR-S1270D830-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D830-X4F0-XX-UDD-BVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

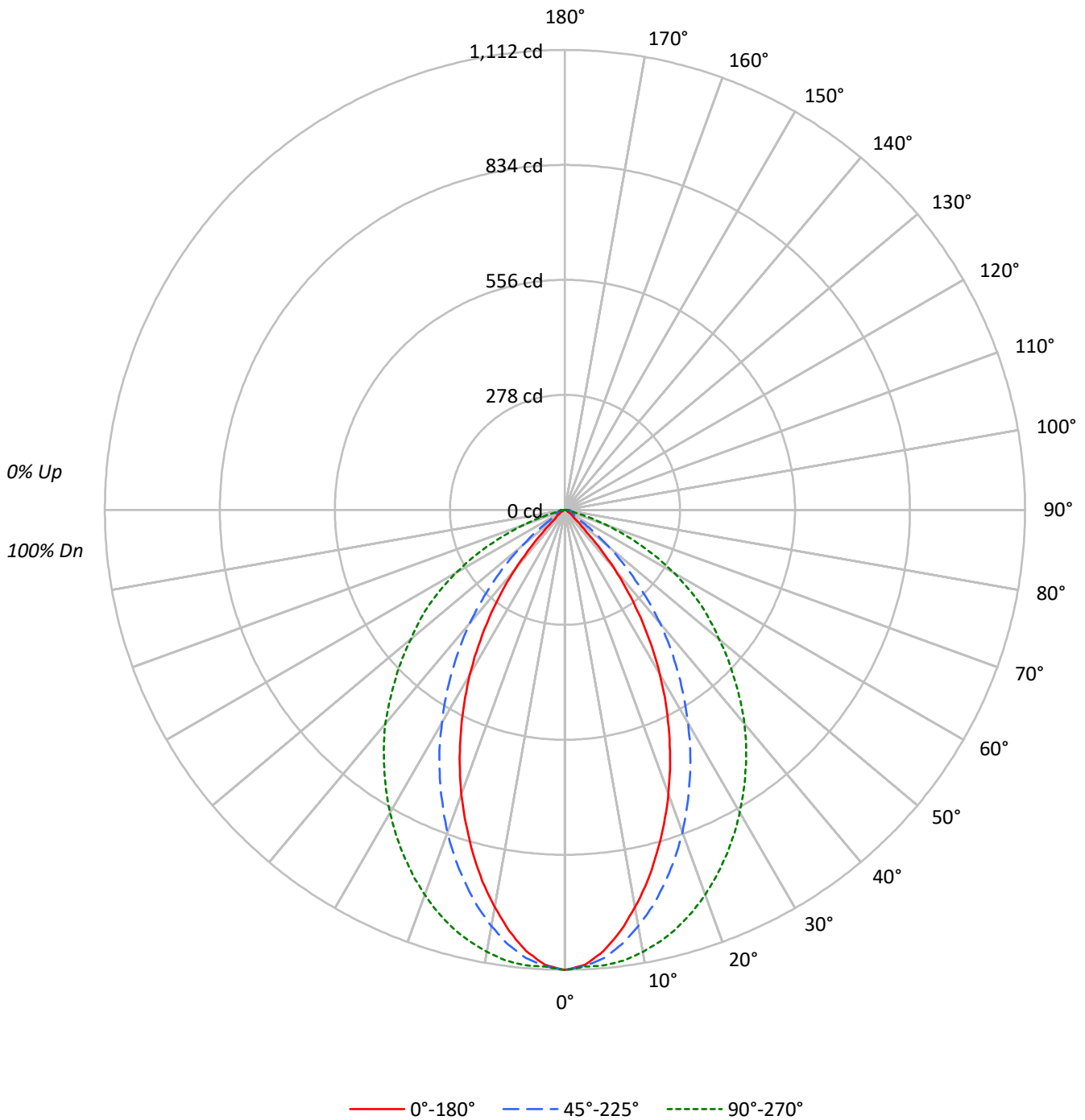
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1430.8 lumens  
Efficiency: N/A  
Efficacy: 34.2 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	83	78	95	88	82	78	85	80	76	83	79	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	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

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

	0°	45°	90°
0°	7659	7659	7659
5°	7404	7518	7641
10°	6819	7145	7586
15°	6122	6650	7460
20°	5360	6083	7258
25°	4527	5433	7004
30°	3648	4727	6720
35°	2683	3984	6402
40°	1674	3214	6071
45°	627	2348	5643
50°	293	1467	5209
55°	214	609	4818
60°	151	321	4170
65°	90	380	3302
70°	83	441	2096
75°	109	436	657
80°	163	543	488
85°	324	869	648

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5643 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.0	7.1
10°-20°	264.1	18.5
20°-30°	336.4	23.5
30°-40°	313.1	21.9
40°-50°	214.5	15.0
50°-60°	118.1	8.3
60°-70°	55.9	3.9
70°-80°	17.6	1.2
80°-90°	9.0	0.6
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°	702.5	49.1
0°-40°	1015.6	71.0
0°-60°	1348.2	94.2
0°-90°	1430.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1430.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1071	1085	1088	1096	1106	99
15°	859	886	933	1003	1047	239
25°	596	633	715	830	922	272
35°	319	364	474	630	762	198
45°	64	108	241	427	580	61
55°	18	20	51	238	401	16
65°	6	7	23	88	203	6
75°	4	7	16	18	25	4
85°	4	10	11	10	8	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1112.4	1112.4	1112.4	1112.4	1112.4
2.5°	1101.4	1112.4	1104.2	1104.2	1105.5
5°	1071.3	1085.0	1087.7	1095.9	1105.5
7.5°	1027.4	1045.3	1059.0	1082.2	1098.7
10°	975.4	997.3	1022.0	1060.3	1085.0
12.5°	920.6	943.9	980.9	1034.3	1068.5
15°	858.9	886.3	932.9	1002.8	1046.6
17.5°	795.9	826.1	883.6	965.8	1020.6
20°	731.5	763.0	830.2	922.0	990.5
22.5°	664.4	698.7	772.6	876.8	957.6
25°	595.9	632.9	715.1	830.2	922.0
27.5°	527.4	565.8	656.2	782.2	885.0
30°	458.9	498.7	594.5	732.9	845.2
32.5°	389.1	432.9	534.3	683.6	804.1
35°	319.2	364.4	474.0	630.2	761.7
37.5°	250.7	297.3	415.1	579.5	719.2
40°	186.3	232.9	357.6	528.8	675.4
42.5°	120.6	169.9	297.3	476.7	627.4
45°	64.4	108.2	241.1	427.4	579.5
47.5°	34.2	57.5	187.7	378.1	534.3
50°	27.4	31.5	137.0	328.8	486.3
52.5°	21.9	24.7	87.7	278.1	443.9
55°	17.8	20.5	50.7	238.4	401.4
57.5°	13.7	16.4	28.8	198.6	352.1
60°	11.0	12.3	23.3	158.9	302.8
62.5°	6.8	9.6	23.3	123.3	253.4
65°	5.5	6.8	23.3	87.7	202.7
67.5°	5.5	5.5	23.3	57.5	152.1
70°	4.1	4.1	21.9	37.0	104.1
72.5°	4.1	4.1	19.2	24.7	60.3
75°	4.1	6.8	16.4	17.8	24.7
77.5°	4.1	11.0	15.1	15.1	13.7
80°	4.1	11.0	13.7	12.3	12.3
82.5°	4.1	11.0	11.0	11.0	9.6
85°	4.1	9.6	11.0	9.6	8.2
87.5°	4.1	9.6	9.6	9.6	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)