

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: P1061527

Luminaire Tested: S125RDR-S1270D835-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D835-X4F0-XX-UDD-SVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

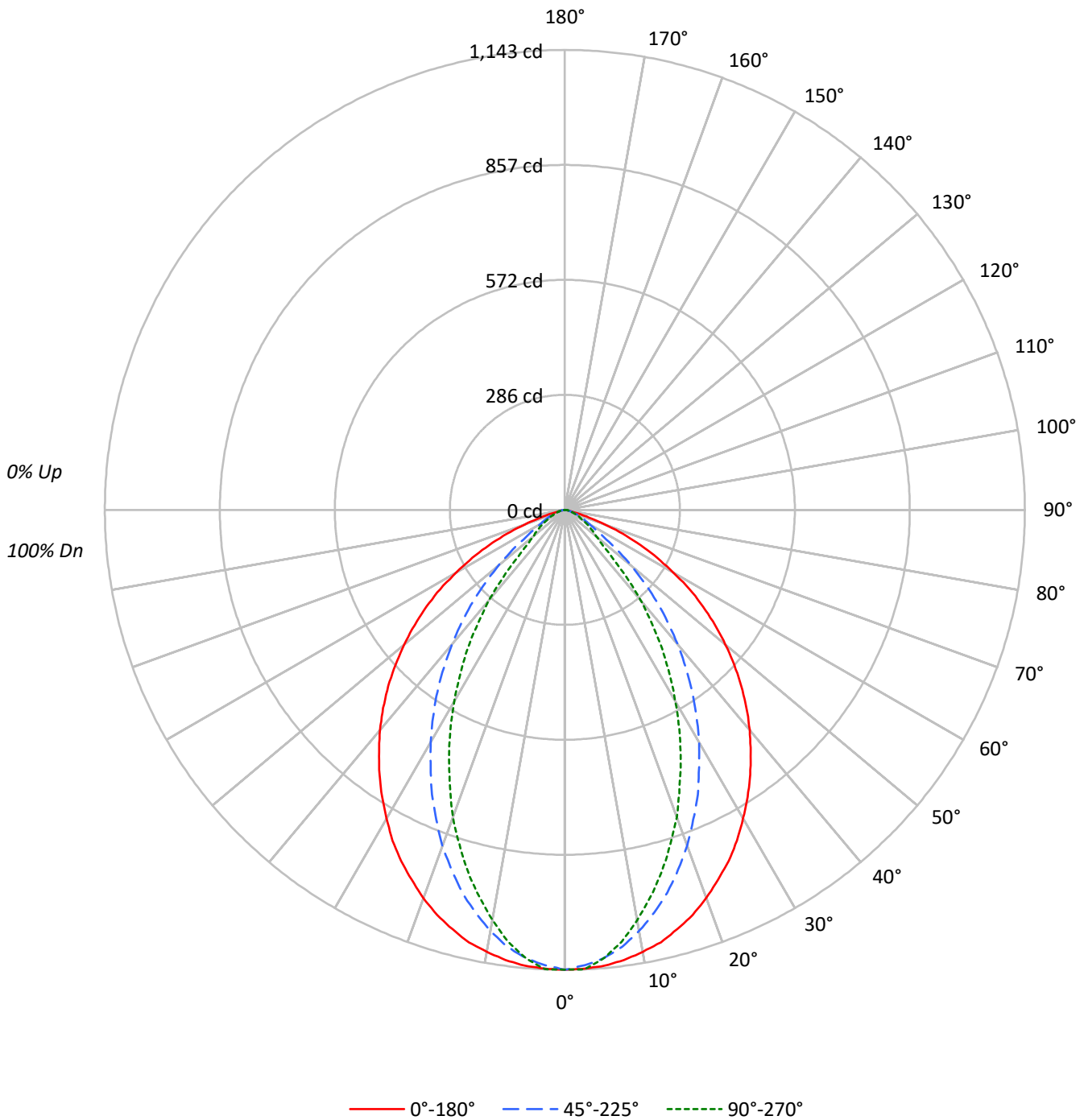
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1652.9 lumens  
Efficiency: N/A  
Efficacy: 39.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
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

TEST NUMBER: P1061527

CATALOG NUMBER: S125RDR-S1270D835-X4F0-XX-UDD-SVL-B

### Luminous Intensity Polar Plot





TEST NUMBER: P1061527

CATALOG NUMBER: S125RDR-S1270D835-X4F0-XX-UDD-SVL-B

**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	97	98	96	95	95	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52				
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43				
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36				

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

	0°	45°	90°
0°	7869	7869	7869
5°	7859	7728	7728
10°	7798	7432	7239
15°	7691	7018	6636
20°	7523	6512	5958
25°	7314	5936	5174
30°	7042	5300	4364
35°	6750	4638	3539
40°	6422	3916	2624
45°	6038	3139	1583
50°	5584	2302	1089
55°	5038	1412	906
60°	4280	960	720
65°	3384	733	569
70°	2134	525	467
75°	694	386	386
80°	230	289	345
85°	118	229	229

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6038 cd/sqm



TEST NUMBER: P1061527

CATALOG NUMBER: S125RDR-S1270D835-X4F0-XX-UDD-SVL-B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	6.4
10°-20°	279.2	16.9
20°-30°	367.2	22.2
30°-40°	360.8	21.8
40°-50°	273.0	16.5
50°-60°	165.5	10.0
60°-70°	78.1	4.7
70°-80°	20.4	1.2
80°-90°	3.1	0.2
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°	752.0	45.5
0°-40°	1112.8	67.3
0°-60°	1551.3	93.9
0°-90°	1652.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1137	1134	1118	1120	1118	108
15°	1079	1050	985	947	931	304
25°	963	890	781	709	681	443
35°	803	696	552	454	421	501
45°	620	488	322	205	163	477
55°	420	288	118	80	76	374
65°	208	106	45	38	35	205
75°	26	17	14	14	14	40
85°	2	2	3	3	3	2
90°	0	0	0	0	0	



TEST NUMBER: P1061527

CATALOG NUMBER: S125RDR-S1270D835-X4F0-XX-UDD-SVL-B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1142.9	1142.9	1142.9	1142.9	1142.9
2.5°	1141.4	1141.4	1132.7	1142.9	1142.9
5°	1137.1	1134.2	1118.2	1119.7	1118.2
7.5°	1128.4	1122.6	1095.0	1087.7	1081.9
10°	1115.3	1103.7	1063.0	1045.6	1035.4
12.5°	1100.8	1080.4	1025.3	1000.6	984.6
15°	1079.0	1049.9	984.6	946.8	930.9
17.5°	1055.8	1013.6	936.7	891.7	871.3
20°	1026.7	977.3	888.8	833.6	813.2
22.5°	994.8	936.7	833.6	772.6	745.0
25°	962.8	890.2	781.3	708.7	681.1
27.5°	926.5	843.7	721.7	646.2	615.7
30°	885.8	797.3	666.6	588.1	548.9
32.5°	845.2	749.3	608.5	522.8	483.6
35°	803.1	695.6	551.8	454.5	421.1
37.5°	758.1	644.8	493.8	392.1	352.9
40°	714.5	594.0	435.7	328.2	291.9
42.5°	668.0	543.1	377.6	265.8	225.1
45°	620.1	487.9	322.4	204.8	162.6
47.5°	570.7	438.6	267.2	151.0	122.0
50°	521.3	386.3	214.9	111.8	101.7
52.5°	470.5	335.5	162.6	92.9	88.6
55°	419.7	287.5	117.6	79.9	75.5
57.5°	367.4	235.3	88.6	68.3	63.9
60°	310.8	188.8	69.7	56.6	52.3
62.5°	258.5	148.1	56.6	46.5	43.6
65°	207.7	106.0	45.0	37.8	34.9
67.5°	155.4	71.2	34.9	29.0	29.0
70°	106.0	46.5	26.1	23.2	23.2
72.5°	63.9	27.6	18.9	18.9	18.9
75°	26.1	17.4	14.5	14.5	14.5
77.5°	8.7	10.2	10.2	11.6	11.6
80°	5.8	5.8	7.3	8.7	8.7
82.5°	2.9	4.4	4.4	5.8	5.8
85°	1.5	1.5	2.9	2.9	2.9
87.5°	0.0	0.0	0.0	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)