

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: P1061567

Luminaire Tested: S125RDR-S1270D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D930-X4F0-XX-UDD-WVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

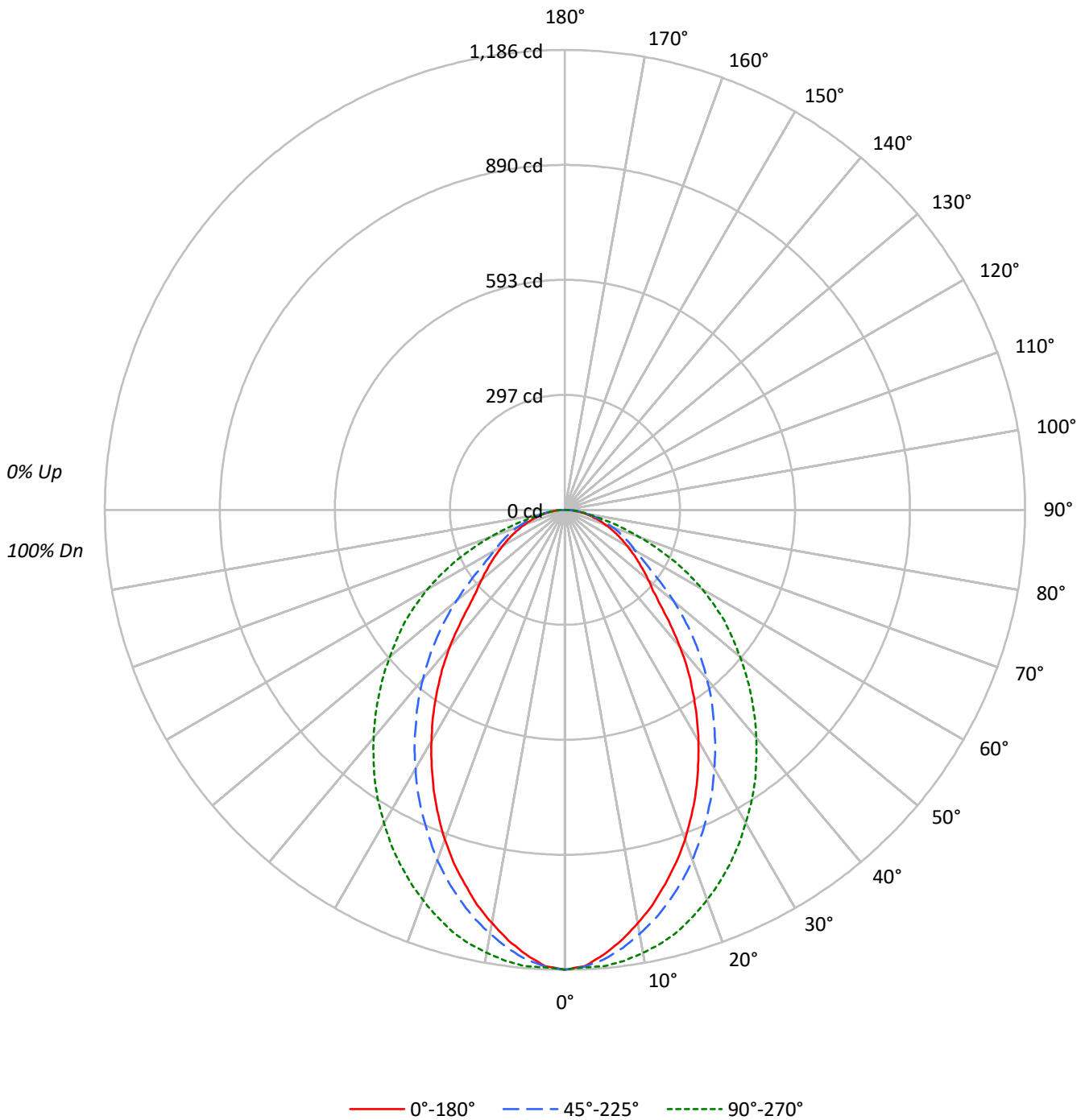
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2222.8 lumens  
Efficiency: N/A  
Efficacy: 53.2 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12  
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44				
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				

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

	0°	45°	90°
0°	8164	8164	8164
5°	7957	8040	8163
10°	7569	7760	8107
15°	7117	7430	8021
20°	6631	7047	7846
25°	6074	6596	7649
30°	5471	6121	7411
35°	4839	5625	7178
40°	4152	5120	6899
45°	3390	4556	6609
50°	3007	3908	6306
55°	2759	3242	6043
60°	2545	2871	5628
65°	2374	2760	5018
70°	2218	2623	4101
75°	2048	2458	3025
80°	1927	2300	2209
85°	1777	2244	1872

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6609 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	4.9
10°-20°	295.6	13.3
20°-30°	406.2	18.3
30°-40°	430.5	19.4
40°-50°	375.8	16.9
50°-60°	285.5	12.8
60°-70°	191.3	8.6
70°-80°	98.6	4.4
80°-90°	29.6	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°	811.5	36.5
0°-40°	1242.0	55.9
0°-60°	1903.3	85.6
0°-90°	2222.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1151	1163	1163	1172	1181	108
15°	998	1018	1042	1089	1125	280
25°	800	824	868	940	1007	367
35°	576	609	669	764	854	359
45°	348	383	468	579	679	275
55°	230	237	270	397	503	206
65°	146	149	169	226	308	145
75°	77	82	92	98	114	82
85°	22	28	28	26	24	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1185.7	1185.7	1185.7	1185.7	1185.7
2.5°	1177.4	1185.7	1178.6	1178.6	1181.0
5°	1151.3	1163.2	1163.2	1171.5	1181.0
7.5°	1119.4	1132.4	1139.5	1158.5	1172.7
10°	1082.6	1096.9	1109.9	1138.3	1159.6
12.5°	1043.6	1059.0	1079.1	1115.8	1145.4
15°	998.5	1017.5	1042.4	1088.6	1125.3
17.5°	953.5	972.5	1003.3	1057.8	1099.2
20°	905.0	925.1	961.8	1021.0	1070.8
22.5°	852.8	875.4	914.4	982.0	1040.0
25°	799.5	824.4	868.2	940.5	1006.8
27.5°	743.9	773.5	820.9	897.9	971.3
30°	688.2	717.8	769.9	854.0	932.2
32.5°	632.5	664.5	721.4	810.2	894.3
35°	575.7	608.8	669.2	764.0	854.0
37.5°	520.0	553.2	620.7	719.0	810.2
40°	462.0	496.3	569.7	672.8	767.6
42.5°	402.7	439.5	518.8	625.4	723.7
45°	348.2	382.6	467.9	579.2	678.7
47.5°	308.0	330.5	416.9	531.8	634.9
50°	280.7	292.6	364.8	485.6	588.7
52.5°	253.5	263.0	316.3	438.3	544.9
55°	229.8	236.9	270.1	396.8	503.4
57.5°	206.1	213.2	234.5	355.4	454.9
60°	184.8	190.7	208.5	311.5	408.7
62.5°	164.6	169.4	188.3	270.1	358.9
65°	145.7	149.2	169.4	226.2	308.0
67.5°	126.7	130.3	150.4	184.8	253.5
70°	110.2	111.3	130.3	150.4	203.7
72.5°	93.6	94.8	110.2	122.0	156.4
75°	77.0	81.7	92.4	98.3	113.7
77.5°	62.8	68.7	74.6	77.0	77.0
80°	48.6	55.7	58.0	58.0	55.7
82.5°	35.5	41.5	42.6	40.3	37.9
85°	22.5	28.4	28.4	26.1	23.7
87.5°	10.7	15.4	15.4	14.2	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)