

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: P1061642

Luminaire Tested: S125RDR-S375D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061642  
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-S375D930-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, 90 CRI LEDS  
Ballast/Driver: -

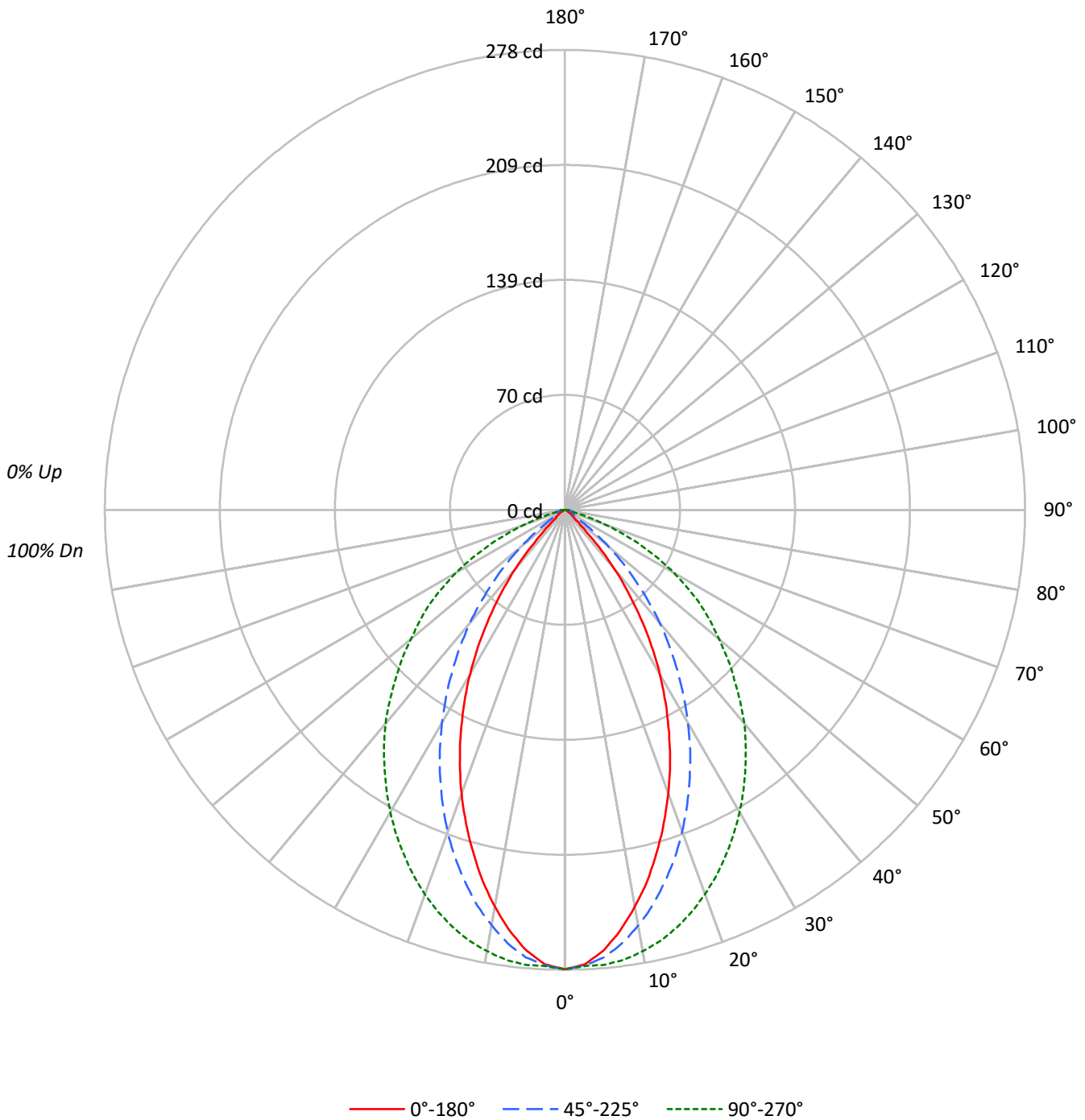
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 357.2 lumens  
Efficiency: N/A  
Efficacy: 28.6 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): 12.5  
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°	1912	1912	1912
5°	1848	1876	1908
10°	1702	1784	1894
15°	1528	1660	1863
20°	1338	1518	1812
25°	1130	1356	1749
30°	911	1180	1678
35°	670	994	1598
40°	418	803	1515
45°	157	586	1409
50°	73	366	1300
55°	53	152	1203
60°	37	80	1041
65°	23	94	824
70°	20	111	523
75°	27	109	165
80°	40	135	123
85°	79	213	166

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1409 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.5	7.1
10°-20°	65.9	18.5
20°-30°	84.0	23.5
30°-40°	78.2	21.9
40°-50°	53.6	15.0
50°-60°	29.5	8.3
60°-70°	14.0	3.9
70°-80°	4.4	1.2
80°-90°	2.2	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°	175.4	49.1
0°-40°	253.5	71.0
0°-60°	336.6	94.2
0°-90°	357.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	357.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	278	278	278	278	278	
5°	267	271	272	274	276	25
15°	214	221	233	250	261	60
25°	149	158	178	207	230	68
35°	80	91	118	157	190	49
45°	16	27	60	107	145	15
55°	4	5	13	60	100	4
65°	1	2	6	22	51	2
75°	1	2	4	4	6	1
85°	1	2	3	2	2	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	277.7	277.7	277.7	277.7	277.7
2.5°	275.0	277.7	275.6	275.6	276.0
5°	267.4	270.9	271.5	273.6	276.0
7.5°	256.5	260.9	264.4	270.2	274.3
10°	243.5	249.0	255.1	264.7	270.9
12.5°	229.8	235.6	244.9	258.2	266.8
15°	214.4	221.3	232.9	250.3	261.3
17.5°	198.7	206.2	220.6	241.1	254.8
20°	182.6	190.5	207.2	230.2	247.3
22.5°	165.9	174.4	192.9	218.9	239.1
25°	148.8	158.0	178.5	207.2	230.2
27.5°	131.7	141.2	163.8	195.3	220.9
30°	114.6	124.5	148.4	183.0	211.0
32.5°	97.1	108.1	133.4	170.7	200.7
35°	79.7	91.0	118.3	157.3	190.1
37.5°	62.6	74.2	103.6	144.7	179.5
40°	46.5	58.1	89.3	132.0	168.6
42.5°	30.1	42.4	74.2	119.0	156.6
45°	16.1	27.0	60.2	106.7	144.7
47.5°	8.5	14.4	46.9	94.4	133.4
50°	6.8	7.9	34.2	82.1	121.4
52.5°	5.5	6.2	21.9	69.4	110.8
55°	4.4	5.1	12.7	59.5	100.2
57.5°	3.4	4.1	7.2	49.6	87.9
60°	2.7	3.1	5.8	39.7	75.6
62.5°	1.7	2.4	5.8	30.8	63.3
65°	1.4	1.7	5.8	21.9	50.6
67.5°	1.4	1.4	5.8	14.4	38.0
70°	1.0	1.0	5.5	9.2	26.0
72.5°	1.0	1.0	4.8	6.2	15.0
75°	1.0	1.7	4.1	4.4	6.2
77.5°	1.0	2.7	3.8	3.8	3.4
80°	1.0	2.7	3.4	3.1	3.1
82.5°	1.0	2.7	2.7	2.7	2.4
85°	1.0	2.4	2.7	2.4	2.1
87.5°	1.0	2.4	2.4	2.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)