

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: P1061636

Luminaire Tested: S125RDR-S375D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S375D927-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

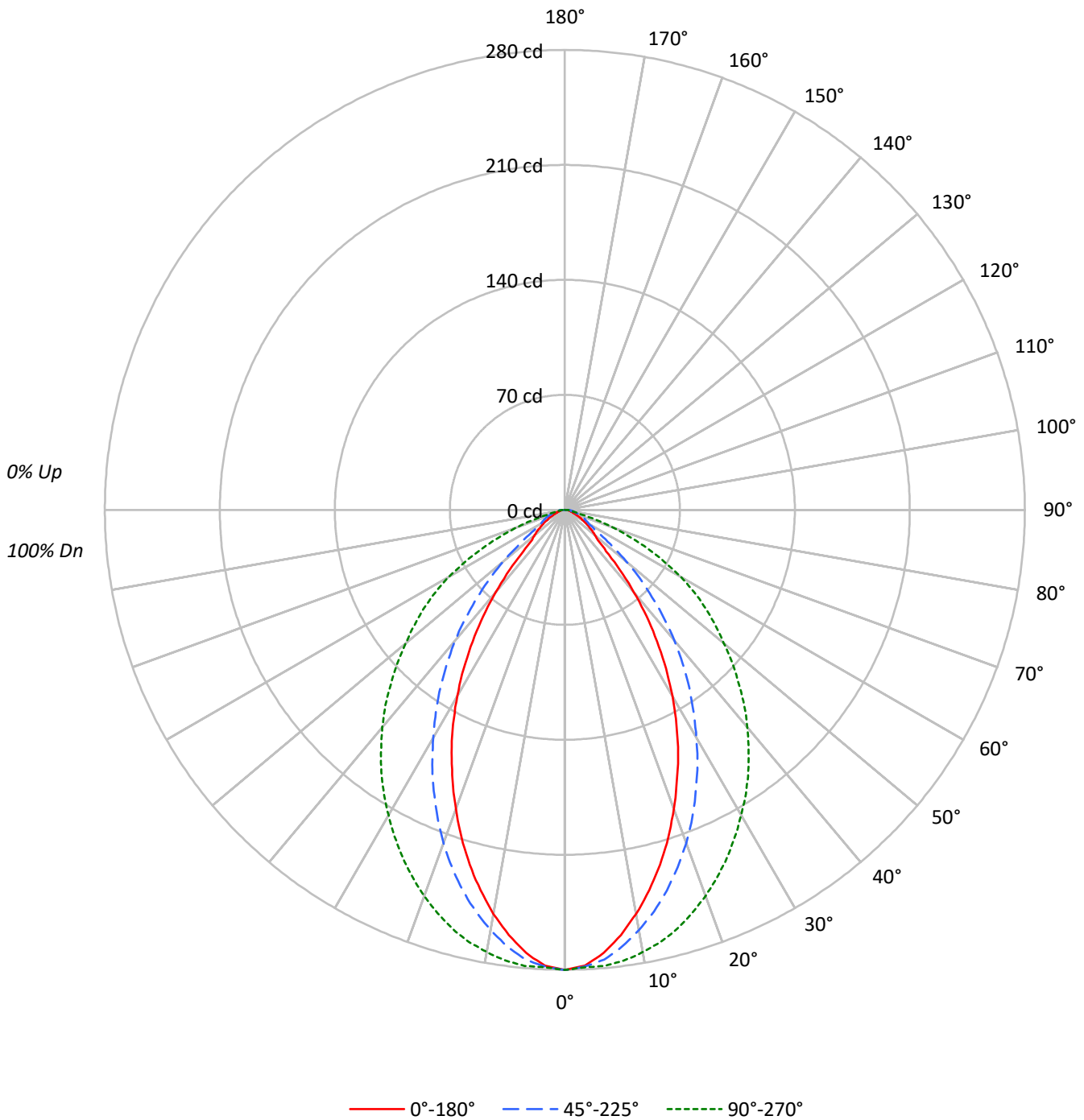
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 404.4 lumens  
Efficiency: N/A  
Efficacy: 32.4 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
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				100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

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

	0°	45°	90°
0°	1929	1929	1929
5°	1872	1899	1926
10°	1746	1816	1911
15°	1594	1710	1883
20°	1421	1583	1833
25°	1239	1434	1775
30°	1041	1273	1706
35°	821	1109	1637
40°	589	932	1553
45°	346	731	1456
50°	256	527	1353
55°	215	319	1257
60°	174	233	1121
65°	135	222	899
70°	113	207	608
75°	106	186	266
80°	107	186	170
85°	134	237	182

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1456 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.8	6.4
10°-20°	67.8	16.8
20°-30°	88.6	21.9
30°-40°	86.2	21.3
40°-50°	64.5	15.9
50°-60°	40.0	9.9
60°-70°	21.0	5.2
70°-80°	7.7	1.9
80°-90°	2.9	0.7
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°	182.2	45.1
0°-40°	268.4	66.4
0°-60°	372.9	92.2
0°-90°	404.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	404.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	280	280	280	280	280	
5°	271	274	275	276	279	25
15°	224	230	240	254	264	62
25°	163	171	189	214	234	74
35°	98	108	132	167	195	61
45°	36	46	75	117	150	30
55°	18	19	27	69	105	16
65°	8	9	14	29	55	9
75°	4	5	7	8	10	4
85°	2	3	3	3	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	280.1	280.1	280.1	280.1	280.1
2.5°	277.8	280.1	278.4	278.4	278.7
5°	270.8	274.4	274.8	276.4	278.7
7.5°	261.1	265.5	268.1	273.1	276.8
10°	249.8	254.8	259.8	268.1	273.4
12.5°	237.2	243.2	250.5	261.8	269.4
15°	223.6	230.2	239.9	254.5	264.1
17.5°	209.3	216.3	228.2	245.9	257.5
20°	194.0	201.7	216.0	235.9	250.2
22.5°	178.4	187.1	202.7	225.3	242.2
25°	163.1	171.4	188.7	214.3	233.6
27.5°	147.2	155.8	174.8	203.0	224.3
30°	130.9	140.2	160.1	191.4	214.6
32.5°	114.6	124.3	145.9	179.4	205.0
35°	97.7	108.3	131.9	167.1	194.7
37.5°	81.7	93.0	117.6	154.5	183.7
40°	65.5	77.1	103.7	142.2	172.8
42.5°	49.5	61.5	89.4	129.6	161.8
45°	35.5	46.5	75.1	117.3	149.5
47.5°	27.2	33.6	61.8	104.7	138.5
50°	23.9	25.9	49.2	92.4	126.3
52.5°	20.9	22.3	36.5	80.4	115.6
55°	17.9	18.9	26.6	69.1	104.7
57.5°	15.3	16.3	20.3	58.8	93.4
60°	12.6	13.6	16.9	48.5	81.4
62.5°	10.6	11.0	15.3	38.9	68.1
65°	8.3	9.0	13.6	29.2	55.2
67.5°	7.0	7.3	12.0	20.9	42.5
70°	5.6	6.0	10.3	14.6	30.2
72.5°	5.0	5.0	8.6	10.6	19.3
75°	4.0	4.7	7.0	7.6	10.0
77.5°	3.3	4.7	6.0	5.6	5.3
80°	2.7	4.3	4.7	4.7	4.3
82.5°	2.3	3.7	4.0	3.7	3.3
85°	1.7	3.0	3.0	3.0	2.3
87.5°	1.3	2.7	2.3	2.3	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)