

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061633

Luminaire Tested: S125RDRP-S375D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061633  
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: S125RDRP-S375D927-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

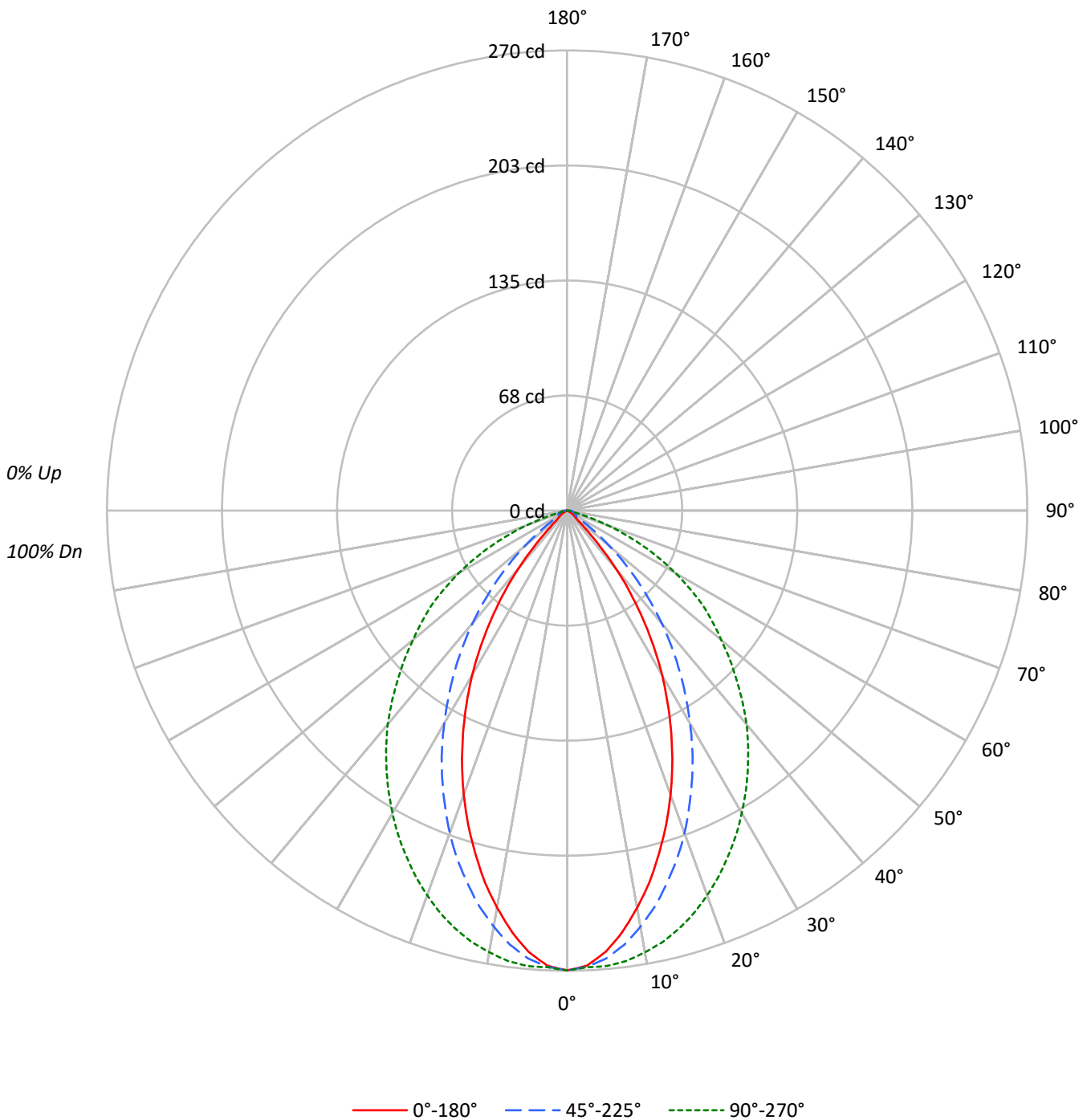
Lumens per Lamp: N/A  
Luminaire Lumens: 347.1 lumens  
Efficiency: N/A  
Efficacy: 27.8 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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°	1858	1858	1858
5°	1796	1823	1854
10°	1654	1733	1840
15°	1485	1613	1810
20°	1300	1476	1760
25°	1098	1318	1699
30°	885	1146	1630
35°	651	967	1553
40°	406	779	1472
45°	152	570	1369
50°	71	356	1264
55°	52	148	1169
60°	37	77	1011
65°	21	91	802
70°	20	107	509
75°	27	106	160
80°	40	131	119
85°	79	213	158

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1369 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.7	7.1
10°-20°	64.1	18.5
20°-30°	81.6	23.5
30°-40°	76.0	21.9
40°-50°	52.0	15.0
50°-60°	28.7	8.3
60°-70°	13.6	3.9
70°-80°	4.3	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°	170.4	49.1
0°-40°	246.4	71.0
0°-60°	327.0	94.2
0°-90°	347.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	347.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	270	270	270	270	270	
5°	260	263	264	266	268	24
15°	208	215	226	243	254	58
25°	144	154	174	201	224	66
35°	77	88	115	153	185	48
45°	16	26	58	104	141	15
55°	4	5	12	58	97	4
65°	1	2	6	21	49	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°	269.8	269.8	269.8	269.8	269.8
2.5°	267.2	269.8	267.8	267.8	268.2
5°	259.9	263.2	263.8	265.8	268.2
7.5°	249.2	253.5	256.9	262.5	266.5
10°	236.6	241.9	247.9	257.2	263.2
12.5°	223.3	229.0	237.9	250.9	259.2
15°	208.3	215.0	226.3	243.2	253.9
17.5°	193.1	200.4	214.3	234.3	247.6
20°	177.4	185.1	201.4	223.6	240.2
22.5°	161.2	169.5	187.4	212.7	232.3
25°	144.5	153.5	173.5	201.4	223.6
27.5°	127.9	137.2	159.2	189.7	214.7
30°	111.3	121.0	144.2	177.8	205.0
32.5°	94.4	105.0	129.6	165.8	195.1
35°	77.4	88.4	115.0	152.9	184.8
37.5°	60.8	72.1	100.7	140.6	174.5
40°	45.2	56.5	86.7	128.3	163.8
42.5°	29.2	41.2	72.1	115.6	152.2
45°	15.6	26.3	58.5	103.7	140.6
47.5°	8.3	14.0	45.5	91.7	129.6
50°	6.6	7.6	33.2	79.8	118.0
52.5°	5.3	6.0	21.3	67.5	107.7
55°	4.3	5.0	12.3	57.8	97.4
57.5°	3.3	4.0	7.0	48.2	85.4
60°	2.7	3.0	5.6	38.5	73.4
62.5°	1.7	2.3	5.6	29.9	61.5
65°	1.3	1.7	5.6	21.3	49.2
67.5°	1.3	1.3	5.6	14.0	36.9
70°	1.0	1.0	5.3	9.0	25.3
72.5°	1.0	1.0	4.7	6.0	14.6
75°	1.0	1.7	4.0	4.3	6.0
77.5°	1.0	2.7	3.7	3.7	3.3
80°	1.0	2.7	3.3	3.0	3.0
82.5°	1.0	2.7	2.7	2.7	2.3
85°	1.0	2.3	2.7	2.3	2.0
87.5°	1.0	2.3	2.3	2.3	1.3
90°	0.0	0.0	0.0	0.0	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.00	0.00	11.20	12.48	11.56	12.80	13.11
	3H	0.00	0.00	0.00	0.00	0.00	11.99	13.12	12.37	13.45	13.82
	4H	0.00	0.00	0.00	0.00	0.00	12.01	13.07	12.42	13.42	13.81
	6H	0.00	0.00	0.00	0.00	0.00	11.97	12.94	12.38	13.31	13.71
	8H	0.00	0.00	0.00	0.00	0.00	11.95	12.87	12.38	13.26	13.66
	12H	0.00	0.00	0.00	0.00	0.00	11.93	12.81	12.36	13.19	13.62
4H	2H	0.00	0.00	0.00	0.00	0.00	10.98	12.04	11.38	12.39	12.77
	3H	0.00	0.00	0.00	0.00	0.00	11.81	12.67	12.22	13.08	13.48
	4H	0.00	0.00	0.00	0.00	0.00	11.85	12.62	12.28	13.04	13.48
	6H	0.00	0.00	0.00	0.00	0.00	11.83	12.50	12.30	12.94	13.41
	8H	0.00	0.00	0.00	0.00	0.27	11.82	12.44	12.29	12.88	13.36
	12H	0.00	0.01	0.00	0.49	0.97	11.82	12.36	12.31	12.85	13.32
8H	4H	0.00	0.00	0.00	0.00	0.05	11.73	12.35	12.20	12.80	13.27
	6H	0.28	0.78	0.78	1.28	1.76	11.73	12.24	12.24	12.74	13.22
	8H	1.24	1.69	1.76	2.21	2.70	11.74	12.19	12.26	12.71	13.20
	12H	2.16	2.56	2.67	3.05	3.63	11.79	12.19	12.30	12.68	13.25
12H	4H	0.00	0.00	0.00	0.00	0.32	11.69	12.24	12.18	12.72	13.19
	6H	0.74	1.19	1.26	1.71	2.20	11.69	12.14	12.21	12.66	13.15
	8H	1.88	2.28	2.40	2.78	3.35	11.73	12.13	12.25	12.63	13.20