

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: P1061651

Luminaire Tested: S125RDRP-S375D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061651  
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-S375D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

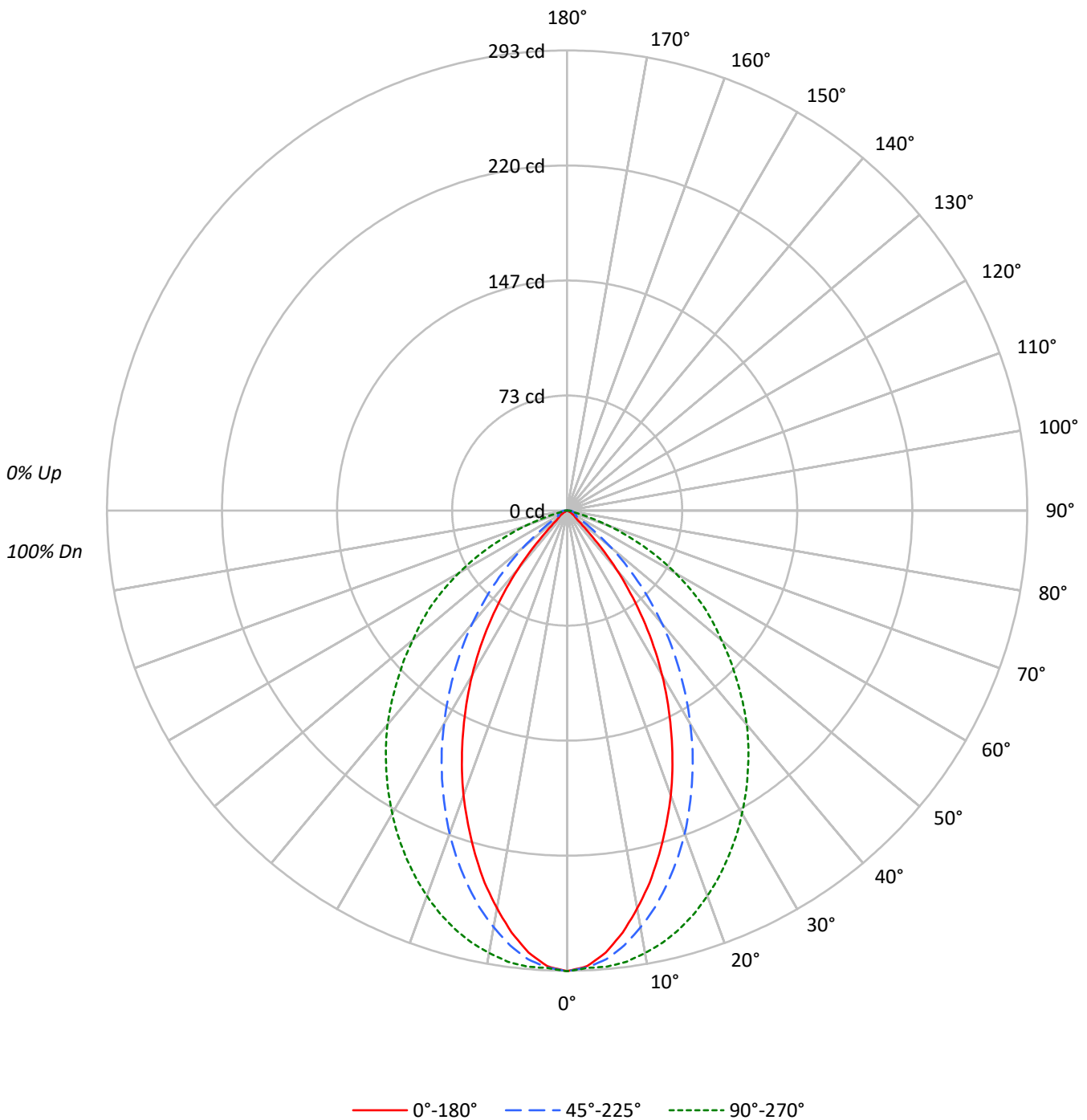
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 377.2 lumens  
Efficiency: N/A  
Efficacy: 30.2 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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49					49			
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42					42			
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39					39			

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

	0°	45°	90°
0°	2019	2019	2019
5°	1952	1982	2015
10°	1798	1883	2000
15°	1614	1754	1967
20°	1413	1604	1913
25°	1193	1432	1847
30°	962	1246	1771
35°	708	1051	1688
40°	441	848	1601
45°	166	619	1488
50°	77	387	1373
55°	56	161	1270
60°	40	84	1099
65°	23	99	872
70°	22	117	552
75°	29	114	173
80°	44	143	131
85°	87	229	174

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1488 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.9	7.1
10°-20°	69.6	18.5
20°-30°	88.7	23.5
30°-40°	82.5	21.9
40°-50°	56.6	15.0
50°-60°	31.1	8.3
60°-70°	14.7	3.9
70°-80°	4.6	1.2
80°-90°	2.4	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°	185.2	49.1
0°-40°	267.7	71.0
0°-60°	355.5	94.2
0°-90°	377.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	377.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	282	286	287	289	292	26
15°	226	234	246	264	276	63
25°	157	167	188	219	243	72
35°	84	96	125	166	201	52
45°	17	28	64	113	153	16
55°	5	5	13	63	106	4
65°	1	2	6	23	54	2
75°	1	2	4	5	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°	293.3	293.3	293.3	293.3	293.3
2.5°	290.4	293.3	291.1	291.1	291.5
5°	282.4	286.0	286.8	288.9	291.5
7.5°	270.9	275.6	279.2	285.3	289.7
10°	257.1	262.9	269.4	279.5	286.0
12.5°	242.7	248.8	258.6	272.7	281.7
15°	226.4	233.7	246.0	264.4	275.9
17.5°	209.8	217.8	232.9	254.6	269.1
20°	192.9	201.2	218.9	243.1	261.1
22.5°	175.2	184.2	203.7	231.1	252.5
25°	157.1	166.9	188.5	218.9	243.1
27.5°	139.0	149.2	173.0	206.2	233.3
30°	121.0	131.5	156.7	193.2	222.8
32.5°	102.6	114.1	140.9	180.2	212.0
35°	84.2	96.1	125.0	166.1	200.8
37.5°	66.1	78.4	109.4	152.8	189.6
40°	49.1	61.4	94.3	139.4	178.1
42.5°	31.8	44.8	78.4	125.7	165.4
45°	17.0	28.5	63.6	112.7	152.8
47.5°	9.0	15.2	49.5	99.7	140.9
50°	7.2	8.3	36.1	86.7	128.2
52.5°	5.8	6.5	23.1	73.3	117.0
55°	4.7	5.4	13.4	62.8	105.8
57.5°	3.6	4.3	7.6	52.4	92.8
60°	2.9	3.3	6.1	41.9	79.8
62.5°	1.8	2.5	6.1	32.5	66.8
65°	1.4	1.8	6.1	23.1	53.5
67.5°	1.4	1.4	6.1	15.2	40.1
70°	1.1	1.1	5.8	9.8	27.4
72.5°	1.1	1.1	5.1	6.5	15.9
75°	1.1	1.8	4.3	4.7	6.5
77.5°	1.1	2.9	4.0	4.0	3.6
80°	1.1	2.9	3.6	3.3	3.3
82.5°	1.1	2.9	2.9	2.9	2.5
85°	1.1	2.5	2.9	2.5	2.2
87.5°	1.1	2.5	2.5	2.5	1.4
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	11.49	12.77	11.85	13.09	13.40
	3H	0.00	0.00	0.00	0.00	0.00	12.28	13.41	12.66	13.74	14.11
	4H	0.00	0.00	0.00	0.00	0.00	12.30	13.36	12.71	13.71	14.10
	6H	0.00	0.00	0.00	0.00	0.00	12.26	13.23	12.67	13.60	14.00
	8H	0.00	0.00	0.00	0.00	0.00	12.24	13.15	12.67	13.55	13.95
	12H	0.00	0.00	0.00	0.00	0.00	12.22	13.10	12.65	13.48	13.91
4H	2H	0.00	0.00	0.00	0.00	0.00	11.27	12.33	11.67	12.68	13.06
	3H	0.00	0.00	0.00	0.00	0.00	12.10	12.96	12.51	13.37	13.77
	4H	0.00	0.00	0.00	0.00	0.00	12.13	12.91	12.57	13.33	13.77
	6H	0.00	0.00	0.00	0.00	0.00	12.12	12.79	12.59	13.23	13.70
	8H	0.00	0.00	0.00	0.06	0.53	12.11	12.73	12.58	13.17	13.65
	12H	0.00	0.28	0.22	0.77	1.24	12.11	12.66	12.60	13.14	13.61
8H	4H	0.00	0.00	0.00	0.00	0.31	12.02	12.64	12.49	13.09	13.56
	6H	0.53	1.04	1.04	1.53	2.02	12.02	12.53	12.53	13.03	13.51
	8H	1.49	1.94	2.01	2.46	2.95	12.03	12.48	12.55	13.00	13.49
	12H	2.42	2.82	2.94	3.32	3.89	12.08	12.48	12.59	12.97	13.54
12H	4H	0.00	0.00	0.00	0.11	0.58	11.98	12.53	12.47	13.01	13.48
	6H	0.99	1.45	1.51	1.96	2.45	11.98	12.43	12.50	12.95	13.44
	8H	2.13	2.53	2.64	3.02	3.60	12.02	12.42	12.53	12.91	13.49