

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: P1062058

Luminaire Tested: S125RDRP-H375D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1062058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-H375D935-X4F0-XX-UDD-SVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

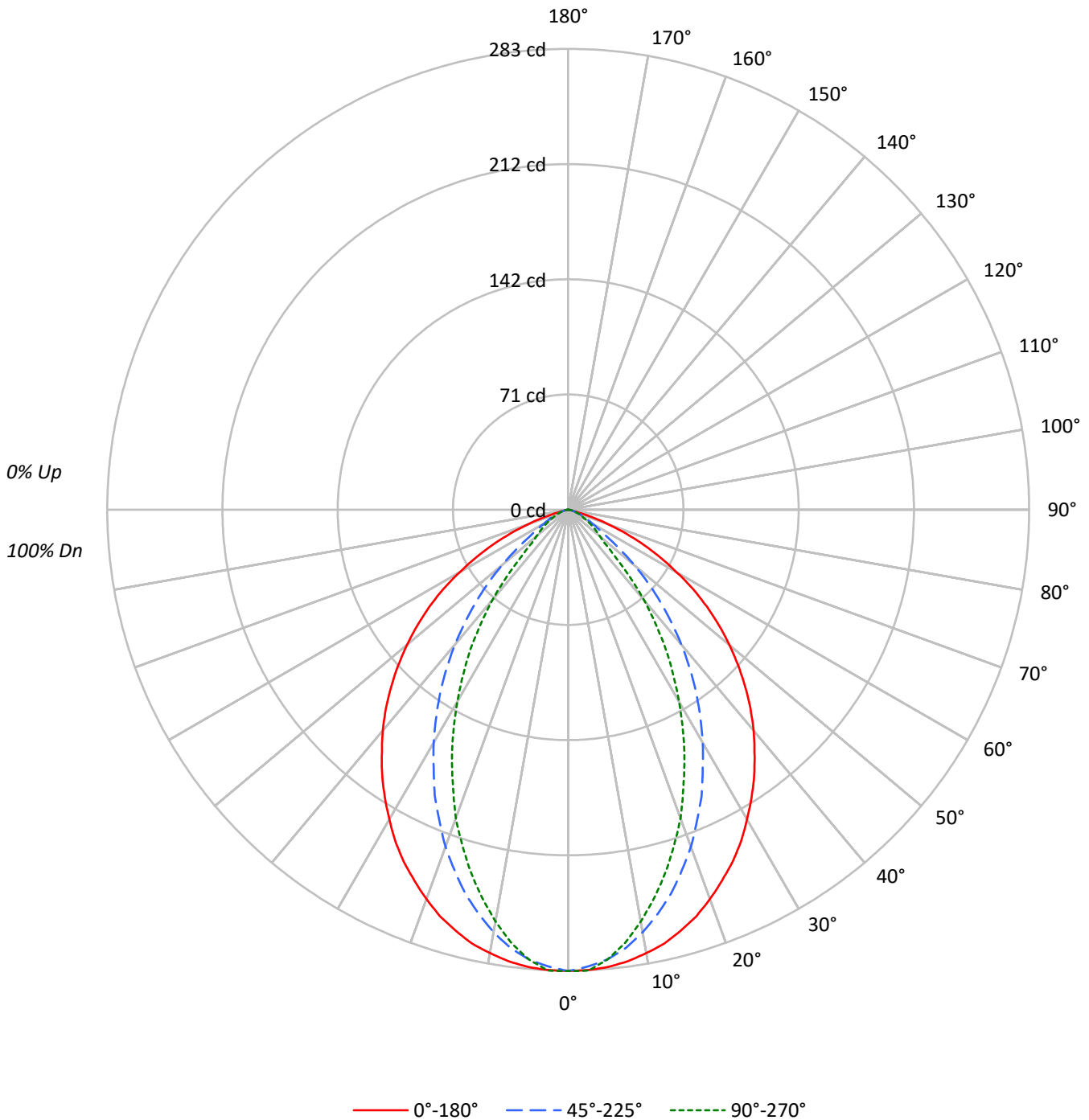
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 409.7 lumens  
Efficiency: N/A  
Efficacy: 35.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11.7  
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	97	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	1951	1951	1951
5°	1948	1916	1916
10°	1933	1842	1795
15°	1907	1740	1644
20°	1865	1614	1477
25°	1813	1472	1282
30°	1746	1313	1082
35°	1674	1150	878
40°	1592	971	651
45°	1497	778	392
50°	1384	571	270
55°	1248	351	224
60°	1060	238	179
65°	839	182	140
70°	529	131	117
75°	173	96	96
80°	56	71	87
85°	32	55	55

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1497 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.2	6.4
10°-20°	69.2	16.9
20°-30°	91.0	22.2
30°-40°	89.4	21.8
40°-50°	67.7	16.5
50°-60°	41.0	10.0
60°-70°	19.4	4.7
70°-80°	5.1	1.2
80°-90°	0.8	0.2
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°	186.4	45.5
0°-40°	275.9	67.3
0°-60°	384.5	93.9
0°-90°	409.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	409.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	283	283	283	283	283	
5°	282	281	277	278	277	27
15°	268	260	244	235	231	75
25°	239	221	194	176	169	110
35°	199	172	137	113	104	124
45°	154	121	80	51	40	118
55°	104	71	29	20	19	93
65°	52	26	11	9	9	51
75°	6	4	4	4	4	10
85°	0	0	1	1	1	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	283.3	283.3	283.3	283.3	283.3
2.5°	282.9	282.9	280.8	283.3	283.3
5°	281.9	281.1	277.2	277.5	277.2
7.5°	279.7	278.3	271.4	269.6	268.2
10°	276.5	273.6	263.5	259.2	256.7
12.5°	272.9	267.8	254.1	248.0	244.1
15°	267.5	260.3	244.1	234.7	230.7
17.5°	261.7	251.3	232.2	221.0	216.0
20°	254.5	242.3	220.3	206.6	201.6
22.5°	246.6	232.2	206.6	191.5	184.7
25°	238.7	220.7	193.7	175.7	168.8
27.5°	229.7	209.1	178.9	160.2	152.6
30°	219.6	197.6	165.2	145.8	136.1
32.5°	209.5	185.7	150.8	129.6	119.9
35°	199.1	172.4	136.8	112.7	104.4
37.5°	187.9	159.8	122.4	97.2	87.5
40°	177.1	147.2	108.0	81.4	72.4
42.5°	165.6	134.6	93.6	65.9	55.8
45°	153.7	121.0	79.9	50.8	40.3
47.5°	141.5	108.7	66.2	37.4	30.2
50°	129.2	95.8	53.3	27.7	25.2
52.5°	116.6	83.2	40.3	23.0	22.0
55°	104.0	71.3	29.2	19.8	18.7
57.5°	91.1	58.3	22.0	16.9	15.8
60°	77.0	46.8	17.3	14.0	13.0
62.5°	64.1	36.7	14.0	11.5	10.8
65°	51.5	26.3	11.2	9.4	8.6
67.5°	38.5	17.6	8.6	7.2	7.2
70°	26.3	11.5	6.5	5.8	5.8
72.5°	15.8	6.8	4.7	4.7	4.7
75°	6.5	4.3	3.6	3.6	3.6
77.5°	2.2	2.5	2.5	2.9	2.9
80°	1.4	1.4	1.8	2.2	2.2
82.5°	0.7	1.1	1.1	1.4	1.4
85°	0.4	0.4	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.4	0.4
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	11.65	12.98	12.01	13.29	13.61	2.30	3.63	2.66	3.94	4.26
	3H	12.35	13.53	12.73	13.86	14.23	3.08	4.26	3.46	4.59	4.96
	4H	12.37	13.47	12.77	13.82	14.20	3.33	4.43	3.74	4.78	5.16
	6H	12.30	13.31	12.72	13.68	14.07	3.52	4.52	3.93	4.89	5.29
	8H	12.26	13.21	12.69	13.60	14.01	3.56	4.51	3.99	4.90	5.31
	12H	12.22	13.13	12.65	13.51	13.94	3.57	4.48	4.00	4.86	5.29
4H	2H	11.48	12.58	11.88	12.93	13.31	2.79	3.88	3.19	4.24	4.62
	3H	12.23	13.12	12.64	13.52	13.92	3.70	4.60	4.12	5.00	5.40
	4H	12.24	13.04	12.68	13.46	13.90	4.02	4.81	4.45	5.23	5.67
	6H	12.18	12.87	12.65	13.31	13.78	4.28	4.97	4.75	5.42	5.88
	8H	12.13	12.77	12.60	13.22	13.69	4.35	4.99	4.82	5.43	5.90
	12H	12.09	12.65	12.57	13.13	13.61	4.37	4.93	4.85	5.41	5.89
8H	4H	12.13	12.76	12.60	13.21	13.68	4.13	4.77	4.60	5.21	5.69
	6H	12.05	12.57	12.55	13.07	13.55	4.46	4.97	4.96	5.47	5.95
	8H	12.00	12.46	12.52	12.98	13.47	4.56	5.02	5.08	5.54	6.03
	12H	11.96	12.37	12.47	12.86	13.43	4.61	5.02	5.13	5.52	6.09
12H	4H	12.08	12.65	12.57	13.13	13.60	4.10	4.66	4.59	5.15	5.62
	6H	11.99	12.46	12.52	12.97	13.47	4.43	4.89	4.95	5.41	5.90
	8H	11.96	12.37	12.47	12.86	13.44	4.56	4.97	5.08	5.47	6.04