

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



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: P1062050

Luminaire Tested: S125RDR-H375D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1062050  
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-H375D930-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

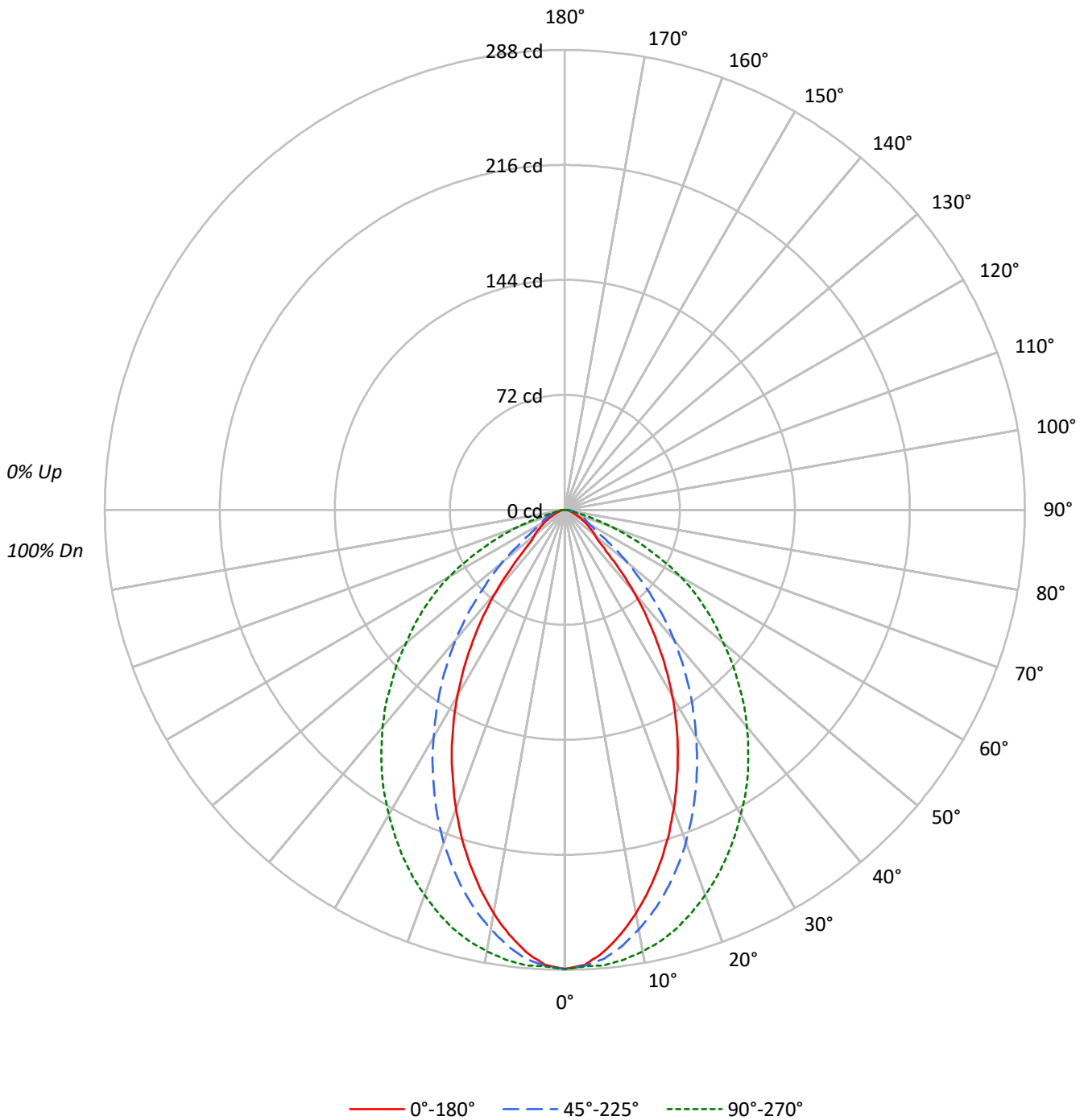
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 415.2 lumens  
Efficiency: N/A  
Efficacy: 35.5 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): 11.7  
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°	1980	1980	1980
5°	1921	1950	1978
10°	1793	1865	1963
15°	1637	1756	1933
20°	1460	1624	1882
25°	1273	1472	1822
30°	1069	1307	1751
35°	843	1138	1680
40°	604	956	1594
45°	355	751	1495
50°	264	541	1388
55°	221	328	1289
60°	179	240	1151
65°	138	228	922
70°	117	213	624
75°	109	192	271
80°	107	190	174
85°	134	245	190

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1495 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.5	6.4
10°-20°	69.6	16.8
20°-30°	91.0	21.9
30°-40°	88.5	21.3
40°-50°	66.2	15.9
50°-60°	41.0	9.9
60°-70°	21.6	5.2
70°-80°	7.9	1.9
80°-90°	3.0	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°	187.1	45.1
0°-40°	275.6	66.4
0°-60°	382.8	92.2
0°-90°	415.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	415.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	288	288	288	288	288	
5°	278	282	282	284	286	26
15°	230	236	246	261	271	64
25°	168	176	194	220	240	76
35°	100	111	135	172	200	62
45°	36	48	77	120	154	31
55°	18	19	27	71	107	17
65°	8	9	14	30	57	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°	287.5	287.5	287.5	287.5	287.5
2.5°	285.2	287.5	285.8	285.8	286.2
5°	278.0	281.7	282.1	283.8	286.2
7.5°	268.1	272.5	275.3	280.4	284.1
10°	256.5	261.6	266.7	275.3	280.7
12.5°	243.5	249.7	257.2	268.8	276.6
15°	229.6	236.4	246.3	261.3	271.2
17.5°	214.9	222.1	234.3	252.4	264.4
20°	199.2	207.0	221.7	242.2	256.8
22.5°	183.2	192.0	208.1	231.3	248.7
25°	167.5	176.0	193.7	220.0	239.8
27.5°	151.1	160.0	179.4	208.4	230.2
30°	134.4	143.9	164.4	196.5	220.3
32.5°	117.7	127.6	149.7	184.2	210.5
35°	100.3	111.2	135.4	171.6	199.9
37.5°	83.9	95.5	120.7	158.6	188.6
40°	67.2	79.1	106.4	146.0	177.4
42.5°	50.8	63.1	91.8	133.0	166.1
45°	36.5	47.8	77.1	120.4	153.5
47.5°	28.0	34.5	63.4	107.4	142.2
50°	24.6	26.6	50.5	94.8	129.6
52.5°	21.5	22.9	37.5	82.5	118.7
55°	18.4	19.4	27.3	70.9	107.4
57.5°	15.7	16.7	20.8	60.4	95.8
60°	13.0	14.0	17.4	49.8	83.6
62.5°	10.9	11.3	15.7	39.9	69.9
65°	8.5	9.2	14.0	30.0	56.6
67.5°	7.2	7.5	12.3	21.5	43.7
70°	5.8	6.1	10.6	15.0	31.0
72.5°	5.1	5.1	8.9	10.9	19.8
75°	4.1	4.8	7.2	7.8	10.2
77.5°	3.4	4.8	6.1	5.8	5.5
80°	2.7	4.4	4.8	4.8	4.4
82.5°	2.4	3.8	4.1	3.8	3.4
85°	1.7	3.1	3.1	3.1	2.4
87.5°	1.4	2.7	2.4	2.4	1.7
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	2.16	3.51	2.52	3.82	4.13	11.87	13.22	12.23	13.53	13.84
	3H	3.00	4.19	3.38	4.52	4.89	12.78	13.98	13.16	14.30	14.67
	4H	3.36	4.47	3.76	4.82	5.21	12.87	13.99	13.28	14.34	14.72
	6H	3.73	4.75	4.14	5.12	5.52	12.86	13.89	13.27	14.26	14.65
	8H	3.91	4.88	4.34	5.27	5.68	12.85	13.82	13.28	14.21	14.62
	12H	4.07	5.00	4.50	5.39	5.82	12.83	13.77	13.27	14.15	14.58
4H	2H	2.99	4.11	3.39	4.46	4.84	11.72	12.83	12.12	13.18	13.57
	3H	4.05	4.96	4.46	5.36	5.77	12.70	13.62	13.12	14.02	14.43
	4H	4.50	5.32	4.94	5.74	6.18	12.83	13.65	13.27	14.07	14.51
	6H	5.06	5.76	5.52	6.21	6.67	12.87	13.57	13.33	14.02	14.48
	8H	5.32	5.98	5.79	6.43	6.90	12.87	13.53	13.33	13.97	14.44
	12H	5.56	6.15	6.05	6.63	7.10	12.87	13.46	13.36	13.94	14.41
8H	4H	5.06	5.72	5.53	6.16	6.64	12.76	13.42	13.23	13.86	14.33
	6H	5.83	6.37	6.33	6.87	7.35	12.82	13.36	13.32	13.85	14.33
	8H	6.26	6.74	6.78	7.25	7.75	12.85	13.33	13.37	13.85	14.34
	12H	6.68	7.11	7.19	7.60	8.17	12.90	13.33	13.42	13.83	14.40
12H	4H	5.12	5.70	5.61	6.19	6.66	12.72	13.31	13.21	13.79	14.26
	6H	5.98	6.46	6.50	6.98	7.47	12.78	13.27	13.30	13.78	14.28
	8H	6.51	6.94	7.03	7.44	8.01	12.85	13.28	13.36	13.77	14.34