

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: P1062041

Luminaire Tested: S125RDR-H375D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1062041  
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-H375D927-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

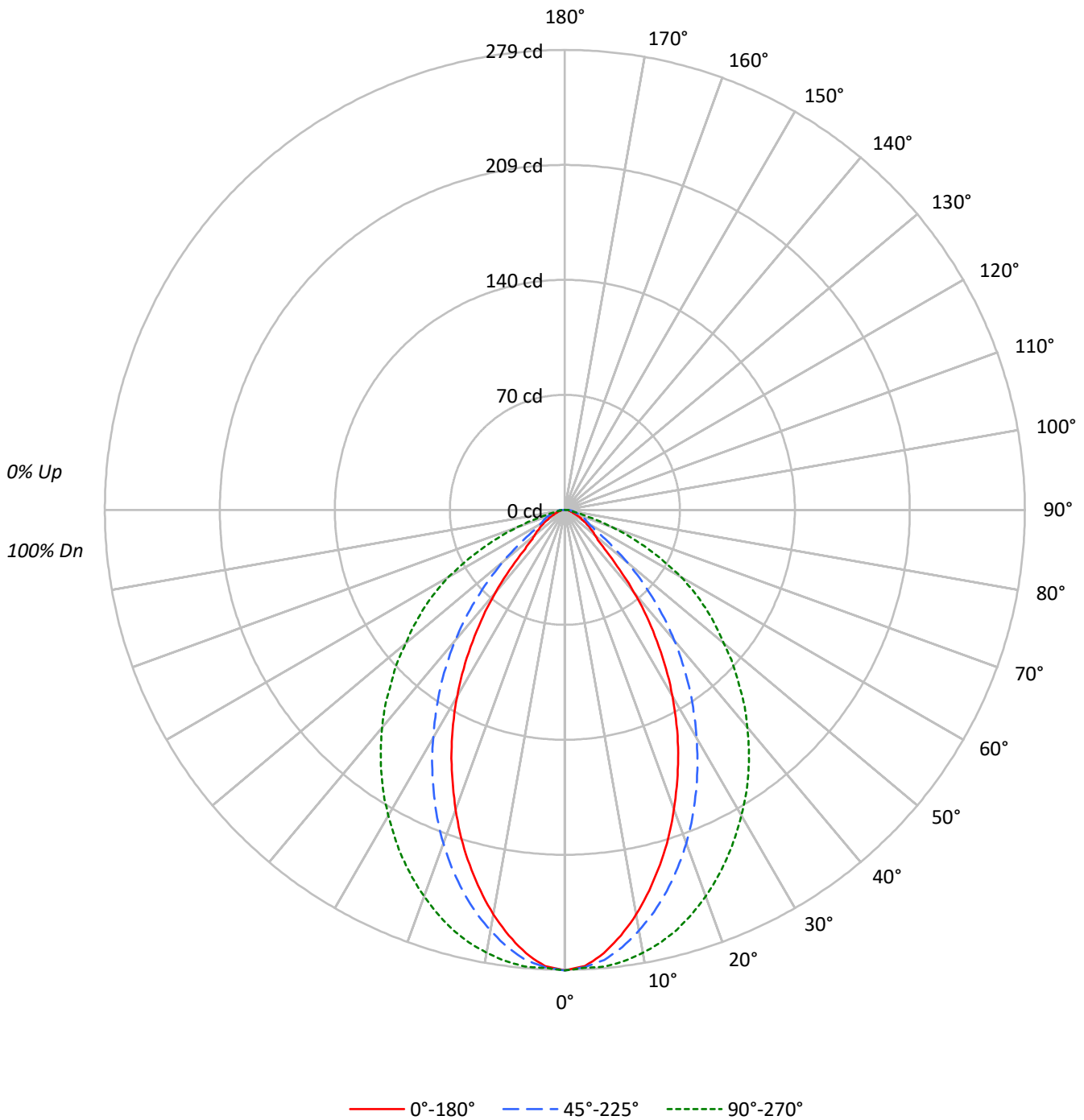
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 403.4 lumens  
Efficiency: N/A  
Efficacy: 34.5 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°	1924	1924	1924
5°	1867	1894	1922
10°	1742	1812	1907
15°	1590	1706	1878
20°	1419	1578	1829
25°	1236	1431	1770
30°	1038	1270	1702
35°	819	1106	1632
40°	587	929	1549
45°	346	729	1452
50°	256	526	1349
55°	215	318	1253
60°	174	233	1118
65°	135	222	896
70°	113	207	608
75°	106	186	263
80°	107	182	170
85°	134	237	182

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1452 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.7	6.4
10°-20°	67.6	16.8
20°-30°	88.4	21.9
30°-40°	86.0	21.3
40°-50°	64.3	15.9
50°-60°	39.9	9.9
60°-70°	20.9	5.2
70°-80°	7.6	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°	181.8	45.1
0°-40°	267.8	66.4
0°-60°	372.0	92.2
0°-90°	403.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	403.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	279	279	279	279	279	
5°	270	274	274	276	278	25
15°	223	230	239	254	264	62
25°	163	171	188	214	233	74
35°	97	108	132	167	194	61
45°	36	46	75	117	149	30
55°	18	19	26	69	104	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°	279.4	279.4	279.4	279.4	279.4
2.5°	277.1	279.4	277.7	277.7	278.1
5°	270.1	273.8	274.1	275.7	278.1
7.5°	260.5	264.8	267.5	272.4	276.1
10°	249.2	254.2	259.2	267.5	272.8
12.5°	236.6	242.6	249.9	261.2	268.8
15°	223.0	229.7	239.3	253.9	263.5
17.5°	208.8	215.8	227.7	245.3	256.9
20°	193.6	201.2	215.4	235.3	249.6
22.5°	178.0	186.6	202.2	224.7	241.6
25°	162.7	171.0	188.3	213.8	233.0
27.5°	146.8	155.4	174.3	202.5	223.7
30°	130.6	139.9	159.7	190.9	214.1
32.5°	114.3	124.0	145.5	179.0	204.5
35°	97.4	108.0	131.6	166.7	194.2
37.5°	81.5	92.8	117.3	154.1	183.3
40°	65.3	76.9	103.4	141.9	172.3
42.5°	49.4	61.3	89.2	129.3	161.4
45°	35.5	46.4	74.9	117.0	149.1
47.5°	27.2	33.5	61.6	104.4	138.2
50°	23.9	25.9	49.1	92.1	125.9
52.5°	20.9	22.2	36.5	80.2	115.3
55°	17.9	18.9	26.5	68.9	104.4
57.5°	15.2	16.2	20.2	58.7	93.1
60°	12.6	13.6	16.9	48.4	81.2
62.5°	10.6	10.9	15.2	38.8	67.9
65°	8.3	8.9	13.6	29.2	55.0
67.5°	7.0	7.3	11.9	20.9	42.4
70°	5.6	6.0	10.3	14.6	30.2
72.5°	5.0	5.0	8.6	10.6	19.2
75°	4.0	4.6	7.0	7.6	9.9
77.5°	3.3	4.6	6.0	5.6	5.3
80°	2.7	4.3	4.6	4.6	4.3
82.5°	2.3	3.6	4.0	3.6	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



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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	2.04	3.39	2.41	3.71	4.02	11.77	13.12	12.13	13.43	13.74
	3H	2.89	4.09	3.27	4.42	4.78	12.68	13.88	13.06	14.21	14.57
	4H	3.25	4.37	3.65	4.72	5.10	12.78	13.89	13.18	14.24	14.63
	6H	3.63	4.65	4.04	5.02	5.42	12.76	13.79	13.18	14.16	14.55
	8H	3.81	4.78	4.24	5.17	5.57	12.75	13.72	13.18	14.11	14.52
	12H	3.97	4.90	4.41	5.29	5.72	12.73	13.67	13.17	14.05	14.48
4H	2H	2.88	3.99	3.28	4.35	4.73	11.62	12.73	12.02	13.08	13.47
	3H	3.94	4.86	4.36	5.26	5.67	12.61	13.52	13.02	13.92	14.33
	4H	4.40	5.21	4.83	5.63	6.08	12.73	13.55	13.17	13.97	14.41
	6H	4.95	5.66	5.42	6.11	6.57	12.77	13.47	13.23	13.92	14.38
	8H	5.21	5.87	5.68	6.32	6.79	12.77	13.42	13.23	13.87	14.34
	12H	5.46	6.04	5.94	6.52	7.00	12.77	13.36	13.26	13.84	14.31
8H	4H	4.95	5.61	5.42	6.06	6.53	12.66	13.32	13.13	13.77	14.24
	6H	5.73	6.27	6.23	6.76	7.25	12.72	13.26	13.22	13.75	14.23
	8H	6.14	6.62	6.66	7.14	7.63	12.74	13.23	13.27	13.74	14.24
	12H	6.56	6.99	7.08	7.48	8.06	12.80	13.23	13.31	13.72	14.29
12H	4H	5.01	5.60	5.50	6.08	6.55	12.62	13.21	13.11	13.69	14.16
	6H	5.87	6.36	6.39	6.87	7.36	12.68	13.17	13.20	13.68	14.17
	8H	6.40	6.82	6.91	7.32	7.89	12.75	13.18	13.26	13.67	14.24