

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: P1061849

Luminaire Tested: S125RDR-H1090D835-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061849
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: S125RDR-H1090D835-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

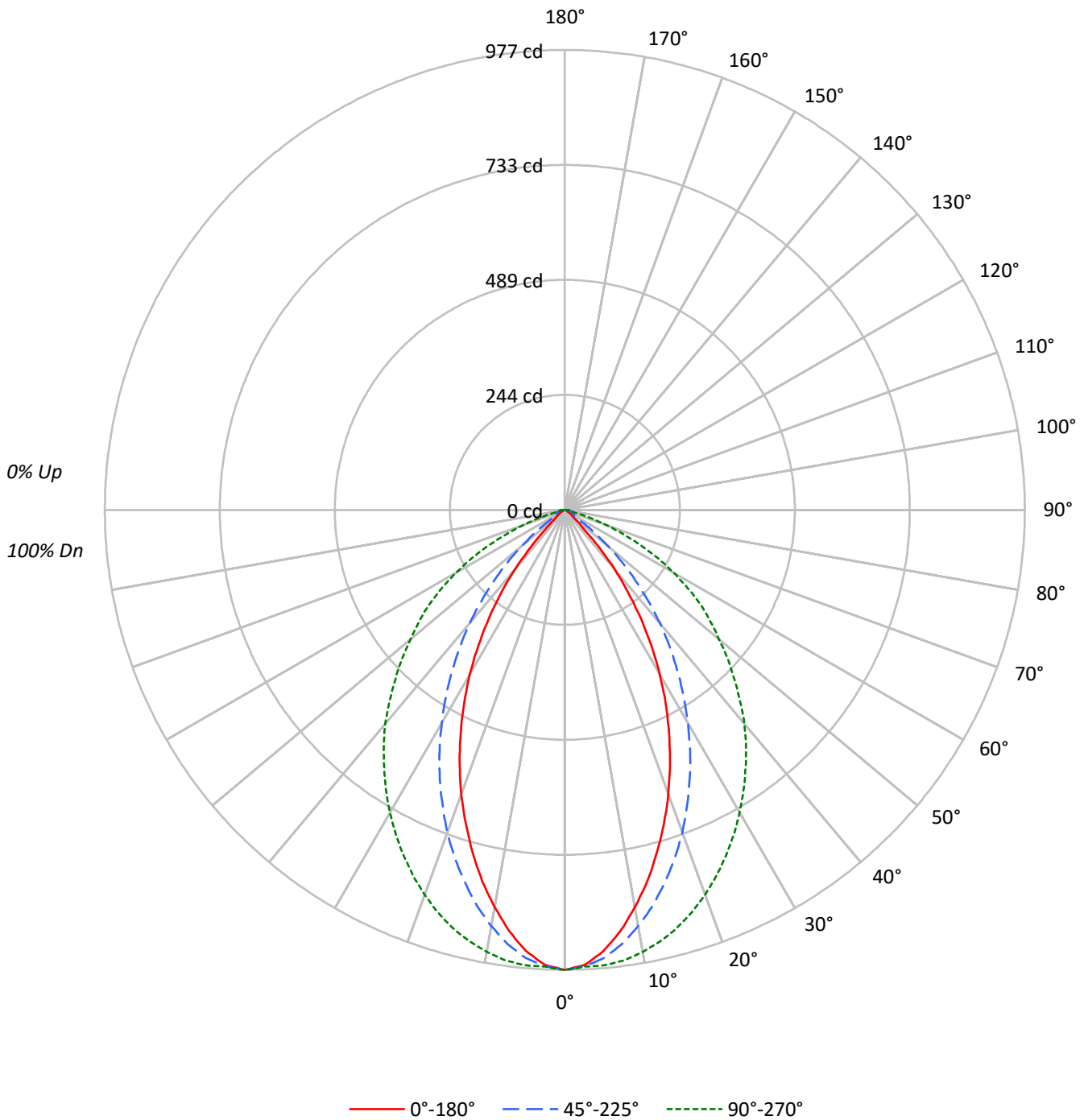
Lumens per Lamp: N/A
Luminaire Lumens: 1256.9 lumens
Efficiency: N/A
Efficacy: 40.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	7.1
10°-20°	232.0	18.5
20°-30°	295.5	23.5
30°-40°	275.1	21.9
40°-50°	188.5	15.0
50°-60°	103.8	8.3
60°-70°	49.1	3.9
70°-80°	15.4	1.2
80°-90°	7.9	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°	617.2	49.1
0°-40°	892.2	71.0
0°-60°	1184.5	94.2
0°-90°	1256.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1256.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	941	953	956	963	971	87
15°	755	779	820	881	920	210
25°	524	556	628	729	810	239
35°	280	320	416	554	669	174
45°	57	95	212	376	509	54
55°	16	18	44	209	353	14
65°	5	6	20	77	178	5
75°	4	6	14	16	22	4
85°	4	8	10	8	7	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.3	977.3	977.3	977.3	977.3
2.5°	967.6	977.3	970.1	970.1	971.3
5°	941.2	953.2	955.6	962.8	971.3
7.5°	902.7	918.3	930.3	950.8	965.2
10°	856.9	876.2	897.8	931.5	953.2
12.5°	808.8	829.2	861.7	908.7	938.8
15°	754.6	778.7	819.6	881.0	919.5
17.5°	699.3	725.7	776.3	848.5	896.6
20°	642.7	670.4	729.3	810.0	870.2
22.5°	583.7	613.8	678.8	770.3	841.3
25°	523.5	556.0	628.2	729.3	810.0
27.5°	463.4	497.1	576.5	687.2	777.5
30°	403.2	438.1	522.3	643.9	742.6
32.5°	341.8	380.3	469.4	600.6	706.5
35°	280.4	320.1	416.4	553.6	669.2
37.5°	220.2	261.2	364.7	509.1	631.9
40°	163.7	204.6	314.1	464.6	593.3
42.5°	105.9	149.2	261.2	418.8	551.2
45°	56.6	95.1	211.8	375.5	509.1
47.5°	30.1	50.5	164.9	332.2	469.4
50°	24.1	27.7	120.4	288.8	427.3
52.5°	19.3	21.7	77.0	244.3	389.9
55°	15.6	18.1	44.5	209.4	352.6
57.5°	12.0	14.4	25.3	174.5	309.3
60°	9.6	10.8	20.5	139.6	266.0
62.5°	6.0	8.4	20.5	108.3	222.7
65°	4.8	6.0	20.5	77.0	178.1
67.5°	4.8	4.8	20.5	50.5	133.6
70°	3.6	3.6	19.3	32.5	91.5
72.5°	3.6	3.6	16.8	21.7	53.0
75°	3.6	6.0	14.4	15.6	21.7
77.5°	3.6	9.6	13.2	13.2	12.0
80°	3.6	9.6	12.0	10.8	10.8
82.5°	3.6	9.6	9.6	9.6	8.4
85°	3.6	8.4	9.6	8.4	7.2
87.5°	3.6	8.4	8.4	8.4	4.8
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	15.67	16.95	16.03	17.27	17.58
	3H	0.00	0.00	0.00	0.00	0.00	16.46	17.59	16.84	17.92	18.29
	4H	0.00	0.00	0.00	0.00	0.00	16.48	17.54	16.88	17.89	18.27
	6H	0.00	0.31	0.00	0.68	1.07	16.44	17.41	16.85	17.78	18.17
	8H	0.02	0.93	0.45	1.33	1.73	16.41	17.33	16.85	17.72	18.13
	12H	0.76	1.64	1.20	2.02	2.45	16.40	17.27	16.83	17.66	18.09
4H	2H	0.00	0.50	0.00	0.86	1.24	15.45	16.51	15.85	16.86	17.24
	3H	0.32	1.18	0.73	1.58	1.99	16.28	17.14	16.69	17.55	17.95
	4H	0.91	1.68	1.35	2.10	2.55	16.31	17.08	16.75	17.50	17.95
	6H	2.40	3.07	2.87	3.51	3.98	16.30	16.96	16.76	17.41	17.88
	8H	3.14	3.76	3.61	4.21	4.68	16.28	16.90	16.75	17.35	17.82
	12H	3.88	4.43	4.37	4.91	5.39	16.29	16.83	16.77	17.32	17.79
8H	4H	2.95	3.57	3.42	4.02	4.49	16.20	16.82	16.67	17.27	17.74
	6H	4.69	5.20	5.19	5.69	6.18	16.20	16.71	16.70	17.20	17.68
	8H	5.64	6.10	6.16	6.61	7.10	16.21	16.66	16.73	17.18	17.67
	12H	6.57	6.98	7.09	7.47	8.04	16.25	16.65	16.77	17.15	17.72
12H	4H	3.25	3.80	3.74	4.28	4.75	16.16	16.70	16.64	17.19	17.66
	6H	5.15	5.60	5.67	6.12	6.61	16.16	16.61	16.68	17.13	17.62
	8H	6.28	6.68	6.79	7.17	7.75	16.19	16.60	16.71	17.09	17.66