

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: P1061507

Luminaire Tested: S125RDRP-S1090D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061507
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-S1090D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

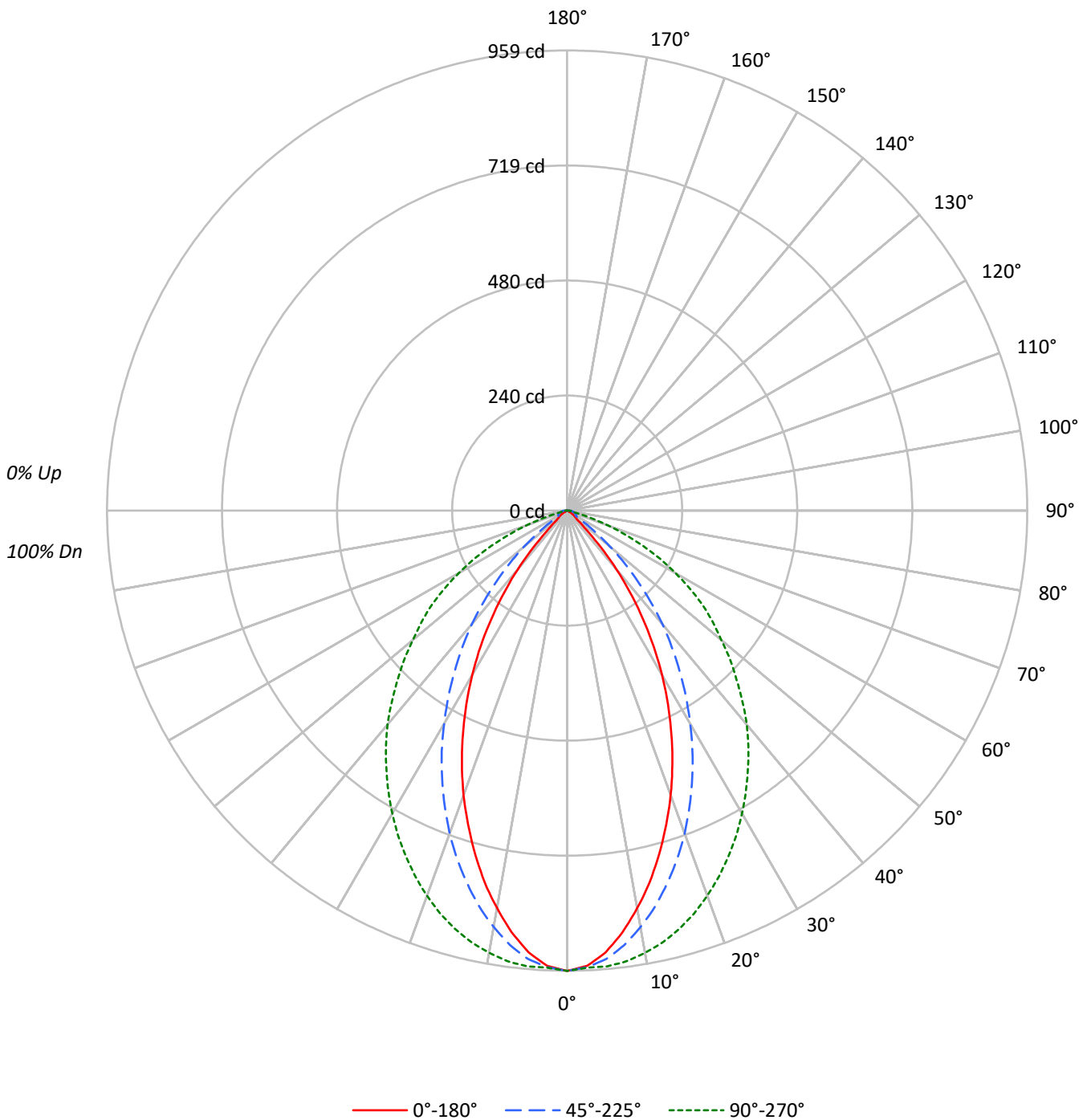
Lumens per Lamp: N/A
Luminaire Lumens: 1233.9 lumens
Efficiency: N/A
Efficacy: 35.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): 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°	6606	6606	6606
5°	6386	6484	6589
10°	5881	6162	6542
15°	5281	5735	6434
20°	4623	5246	6259
25°	3904	4685	6040
30°	3147	4077	5796
35°	2314	3436	5521
40°	1444	2772	5236
45°	540	2024	4867
50°	253	1265	4492
55°	185	525	4156
60°	131	277	3595
65°	77	327	2849
70°	70	380	1808
75°	93	378	567
80°	139	468	420
85°	276	750	561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4867 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	7.1
10°-20°	227.7	18.5
20°-30°	290.1	23.5
30°-40°	270.0	21.9
40°-50°	185.0	15.0
50°-60°	101.9	8.3
60°-70°	48.2	3.9
70°-80°	15.2	1.2
80°-90°	7.8	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°	605.8	49.1
0°-40°	875.9	71.0
0°-60°	1162.8	94.2
0°-90°	1233.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	924	936	938	945	953	86
15°	741	764	805	865	903	207
25°	514	546	617	716	795	235
35°	275	314	409	544	657	171
45°	56	93	208	369	500	53
55°	15	18	44	206	346	14
65°	5	6	20	76	175	5
75°	4	6	14	15	21	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°	959.4	959.4	959.4	959.4	959.4
2.5°	949.9	959.4	952.3	952.3	953.4
5°	923.9	935.7	938.1	945.2	953.4
7.5°	886.1	901.5	913.3	933.4	947.5
10°	841.2	860.1	881.4	914.5	935.7
12.5°	794.0	814.0	845.9	892.0	921.5
15°	740.8	764.4	804.6	864.8	902.6
17.5°	686.4	712.4	762.1	832.9	880.2
20°	630.9	658.1	716.0	795.1	854.2
22.5°	573.0	602.6	666.4	756.1	825.8
25°	513.9	545.8	616.7	716.0	795.1
27.5°	454.9	487.9	565.9	674.6	763.2
30°	395.8	430.1	512.8	632.1	729.0
32.5°	335.5	373.3	460.8	589.6	693.5
35°	275.3	314.3	408.8	543.5	656.9
37.5°	216.2	256.4	358.0	499.8	620.3
40°	160.7	200.9	308.4	456.0	582.5
42.5°	104.0	146.5	256.4	411.2	541.1
45°	55.5	93.3	207.9	368.6	499.8
47.5°	29.5	49.6	161.9	326.1	460.8
50°	23.6	27.2	118.1	283.6	419.4
52.5°	18.9	21.3	75.6	239.8	382.8
55°	15.4	17.7	43.7	205.6	346.2
57.5°	11.8	14.2	24.8	171.3	303.6
60°	9.5	10.6	20.1	137.1	261.1
62.5°	5.9	8.3	20.1	106.3	218.6
65°	4.7	5.9	20.1	75.6	174.9
67.5°	4.7	4.7	20.1	49.6	131.1
70°	3.5	3.5	18.9	31.9	89.8
72.5°	3.5	3.5	16.5	21.3	52.0
75°	3.5	5.9	14.2	15.4	21.3
77.5°	3.5	9.5	13.0	13.0	11.8
80°	3.5	9.5	11.8	10.6	10.6
82.5°	3.5	9.5	9.5	9.5	8.3
85°	3.5	8.3	9.5	8.3	7.1
87.5°	3.5	8.3	8.3	8.3	4.7
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	0.00	0.00	0.00	0.00	0.00	15.60	16.89	15.97	17.20	17.52
	3H	0.00	0.00	0.00	0.00	0.00	16.39	17.53	16.77	17.86	18.22
	4H	0.00	0.00	0.00	0.00	0.00	16.42	17.47	16.82	17.83	18.21
	6H	0.00	0.25	0.00	0.62	1.01	16.37	17.34	16.79	17.71	18.11
	8H	0.00	0.87	0.38	1.26	1.67	16.35	17.27	16.78	17.66	18.07
	12H	0.69	1.57	1.12	1.95	2.38	16.33	17.21	16.76	17.59	18.02
4H	2H	0.00	0.45	0.00	0.80	1.18	15.39	16.44	15.79	16.80	17.18
	3H	0.25	1.12	0.67	1.52	1.92	16.21	17.08	16.63	17.48	17.89
	4H	0.85	1.62	1.28	2.04	2.48	16.25	17.02	16.68	17.44	17.88
	6H	2.35	3.01	2.81	3.46	3.93	16.24	16.90	16.70	17.35	17.82
	8H	3.09	3.71	3.56	4.16	4.63	16.22	16.84	16.69	17.29	17.76
	12H	3.83	4.37	4.31	4.86	5.33	16.22	16.77	16.71	17.25	17.73
8H	4H	2.89	3.51	3.36	3.96	4.43	16.14	16.76	16.61	17.20	17.67
	6H	4.65	5.15	5.15	5.65	6.13	16.14	16.64	16.64	17.14	17.62
	8H	5.60	6.05	6.12	6.57	7.06	16.14	16.60	16.67	17.11	17.61
	12H	6.53	6.93	7.05	7.43	8.00	16.19	16.59	16.71	17.09	17.66
12H	4H	3.20	3.74	3.68	4.23	4.70	16.09	16.64	16.58	17.12	17.60
	6H	5.10	5.56	5.63	6.07	6.57	16.09	16.55	16.61	17.06	17.55
	8H	6.24	6.64	6.76	7.14	7.71	16.13	16.53	16.65	17.03	17.60