

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: P1061888

Luminaire Tested: S125RDR-H1090D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061888
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-H1090D930-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

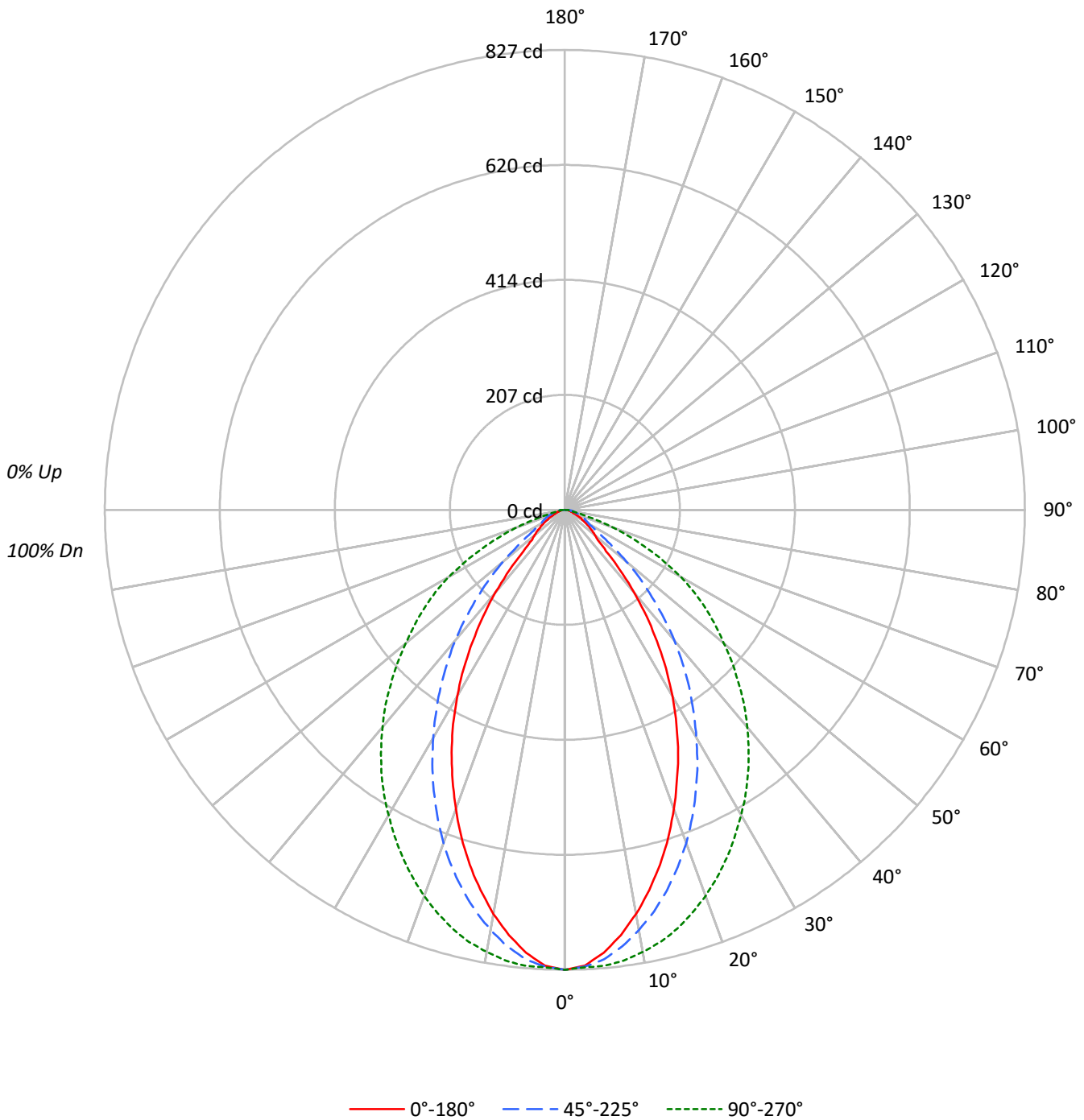
Lumens per Lamp: N/A
Luminaire Lumens: 1194.2 lumens
Efficiency: N/A
Efficacy: 38.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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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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°	5695	5695	5695
5°	5526	5608	5689
10°	5158	5364	5645
15°	4707	5049	5560
20°	4198	4673	5413
25°	3659	4234	5240
30°	3073	3760	5039
35°	2424	3274	4832
40°	1737	2751	4586
45°	1022	2159	4299
50°	756	1555	3993
55°	636	942	3709
60°	514	689	3310
65°	399	655	2654
70°	336	612	1798
75°	314	548	782
80°	309	543	508
85°	387	695	545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	6.4
10°-20°	200.2	16.8
20°-30°	261.6	21.9
30°-40°	254.7	21.3
40°-50°	190.3	15.9
50°-60°	118.0	9.9
60°-70°	62.0	5.2
70°-80°	22.6	1.9
80°-90°	8.5	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°	538.0	45.1
0°-40°	792.7	66.4
0°-60°	1101.1	92.2
0°-90°	1194.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	800	810	811	816	823	74
15°	660	680	708	752	780	184
25°	482	506	557	633	690	220
35°	288	320	390	494	575	180
45°	105	137	222	346	442	88
55°	53	56	78	204	309	48
65°	24	26	40	86	163	26
75°	12	14	21	23	29	13
85°	5	9	9	9	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.1	827.1	827.1	827.1	827.1
2.5°	820.2	827.1	822.1	822.1	823.1
5°	799.6	810.4	811.4	816.3	823.1
7.5°	771.1	783.9	791.7	806.4	817.2
10°	737.8	752.5	767.2	791.7	807.4
12.5°	700.5	718.2	739.7	773.1	795.7
15°	660.3	679.9	708.3	751.5	780.0
17.5°	618.1	638.7	674.0	726.0	760.3
20°	573.0	595.5	637.7	696.6	738.8
22.5°	526.8	552.3	598.5	665.2	715.2
25°	481.7	506.2	557.3	632.8	689.7
27.5°	434.6	460.1	516.0	599.4	662.2
30°	386.5	414.0	472.9	565.1	633.8
32.5°	338.5	366.9	430.7	529.8	605.3
35°	288.4	319.8	389.5	493.5	574.9
37.5°	241.3	274.7	347.3	456.2	542.5
40°	193.3	227.6	306.1	419.9	510.2
42.5°	146.2	181.5	263.9	382.6	477.8
45°	105.0	137.4	221.7	346.3	441.5
47.5°	80.4	99.1	182.5	309.0	409.1
50°	70.6	76.5	145.2	272.7	372.8
52.5°	61.8	65.7	107.9	237.4	341.4
55°	53.0	55.9	78.5	204.1	309.0
57.5°	45.1	48.1	59.8	173.7	275.7
60°	37.3	40.2	50.0	143.2	240.4
62.5°	31.4	32.4	45.1	114.8	201.1
65°	24.5	26.5	40.2	86.3	162.9
67.5°	20.6	21.6	35.3	61.8	125.6
70°	16.7	17.7	30.4	43.2	89.3
72.5°	14.7	14.7	25.5	31.4	56.9
75°	11.8	13.7	20.6	22.6	29.4
77.5°	9.8	13.7	17.7	16.7	15.7
80°	7.8	12.8	13.7	13.7	12.8
82.5°	6.9	10.8	11.8	10.8	9.8
85°	4.9	8.8	8.8	8.8	6.9
87.5°	3.9	7.8	6.9	6.9	4.9
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	5.83	7.18	6.20	7.49	7.81	15.54	16.89	15.90	17.20	17.51
	3H	6.67	7.87	7.05	8.20	8.56	16.45	17.65	16.83	17.98	18.34
	4H	7.03	8.15	7.43	8.50	8.88	16.55	17.66	16.95	18.01	18.40
	6H	7.40	8.43	7.82	8.80	9.19	16.53	17.56	16.95	17.93	18.32
	8H	7.58	8.56	8.01	8.95	9.35	16.52	17.49	16.95	17.88	18.29
	12H	7.75	8.68	8.18	9.06	9.49	16.51	17.44	16.94	17.82	18.25
4H	2H	6.66	7.78	7.06	8.13	8.51	15.39	16.50	15.79	16.85	17.24
	3H	7.72	8.63	8.13	9.04	9.44	16.38	17.29	16.79	17.69	18.10
	4H	8.17	8.99	8.61	9.41	9.85	16.50	17.32	16.94	17.74	18.18
	6H	8.73	9.44	9.19	9.88	10.35	16.54	17.24	17.00	17.69	18.15
	8H	8.99	9.65	9.46	10.10	10.57	16.54	17.20	17.01	17.64	18.11
	12H	9.23	9.82	9.72	10.30	10.77	16.55	17.13	17.03	17.61	18.09
8H	4H	8.73	9.39	9.20	9.83	10.30	16.43	17.09	16.90	17.54	18.01
	6H	9.51	10.05	10.01	10.54	11.02	16.49	17.03	16.99	17.52	18.01
	8H	9.92	10.41	10.44	10.92	11.41	16.52	17.00	17.04	17.52	18.01
	12H	10.34	10.77	10.85	11.26	11.83	16.57	17.00	17.09	17.49	18.06
12H	4H	8.79	9.37	9.27	9.85	10.33	16.40	16.98	16.88	17.46	17.93
	6H	9.65	10.13	10.17	10.65	11.14	16.46	16.94	16.98	17.45	17.95
	8H	10.18	10.61	10.69	11.10	11.67	16.52	16.95	17.03	17.44	18.01