

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: P1061969

Luminaire Tested: S125RDR-H1270D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061969
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-H1270D930-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

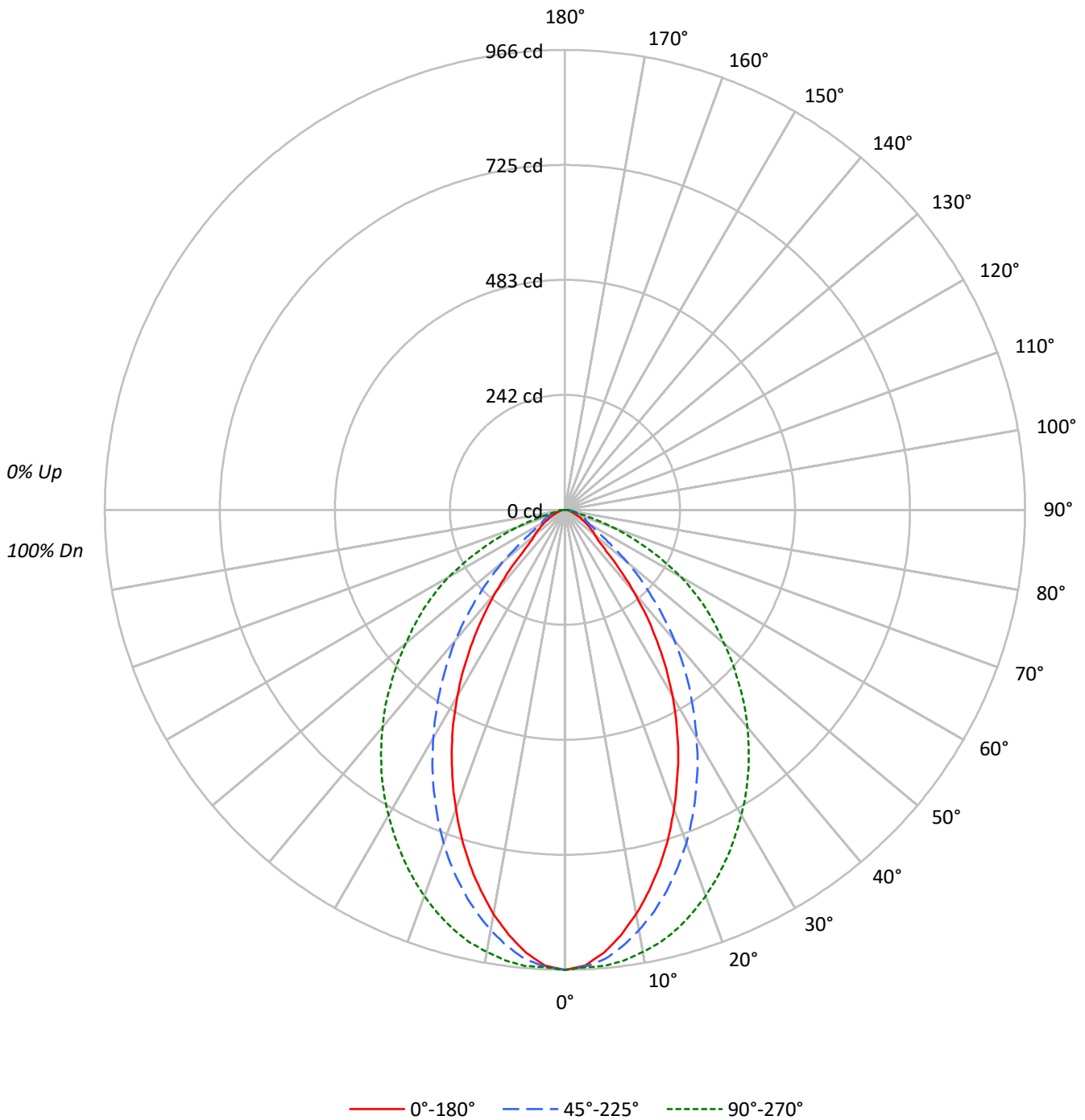
Lumens per Lamp: N/A
Luminaire Lumens: 1395.1 lumens
Efficiency: N/A
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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°	6653	6653	6653
5°	6456	6551	6646
10°	6026	6266	6594
15°	5498	5899	6494
20°	4904	5459	6323
25°	4275	4946	6121
30°	3590	4392	5886
35°	2832	3824	5645
40°	2029	3214	5357
45°	1194	2522	5021
50°	884	1817	4665
55°	743	1101	4333
60°	600	806	3867
65°	468	766	3100
70°	393	715	2100
75°	367	641	915
80°	365	634	591
85°	450	814	632

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5021 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	6.4
10°-20°	233.9	16.8
20°-30°	305.6	21.9
30°-40°	297.5	21.3
40°-50°	222.3	15.9
50°-60°	137.9	9.9
60°-70°	72.4	5.2
70°-80°	26.4	1.9
80°-90°	10.0	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°	628.5	45.1
0°-40°	926.0	66.4
0°-60°	1286.3	92.2
0°-90°	1395.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1395.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	934	947	948	954	962	87
15°	771	794	828	878	911	215
25°	563	591	651	739	806	257
35°	337	374	455	576	672	210
45°	123	160	259	405	516	103
55°	62	65	92	238	361	56
65°	29	31	47	101	190	30
75°	14	16	24	26	34	15
85°	6	10	10	10	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.2	966.2	966.2	966.2	966.2
2.5°	958.1	966.2	960.4	960.4	961.6
5°	934.1	946.7	947.8	953.5	961.6
7.5°	900.8	915.7	924.9	942.1	954.7
10°	861.9	879.0	896.2	924.9	943.2
12.5°	818.3	838.9	864.1	903.1	929.5
15°	771.3	794.2	827.5	877.9	911.1
17.5°	722.0	746.1	787.4	848.1	888.2
20°	669.3	695.7	745.0	813.7	863.0
22.5°	615.4	645.2	699.1	777.0	835.5
25°	562.7	591.4	651.0	739.2	805.7
27.5°	507.7	537.5	602.8	700.3	773.6
30°	451.6	483.6	552.4	660.1	740.4
32.5°	395.4	428.6	503.1	618.9	707.1
35°	336.9	373.6	455.0	576.5	671.6
37.5°	281.9	320.9	405.7	532.9	633.8
40°	225.8	265.9	357.6	490.5	596.0
42.5°	170.8	212.0	308.3	447.0	558.1
45°	122.6	160.5	259.0	404.6	515.7
47.5°	94.0	115.8	213.2	361.0	477.9
50°	82.5	89.4	169.6	318.6	435.5
52.5°	72.2	76.8	126.1	277.4	398.8
55°	61.9	65.3	91.7	238.4	361.0
57.5°	52.7	56.2	69.9	202.9	322.1
60°	43.6	47.0	58.5	167.3	280.8
62.5°	36.7	37.8	52.7	134.1	234.9
65°	28.7	30.9	47.0	100.9	190.3
67.5°	24.1	25.2	41.3	72.2	146.7
70°	19.5	20.6	35.5	50.4	104.3
72.5°	17.2	17.2	29.8	36.7	66.5
75°	13.8	16.0	24.1	26.4	34.4
77.5°	11.5	16.0	20.6	19.5	18.3
80°	9.2	14.9	16.0	16.0	14.9
82.5°	8.0	12.6	13.8	12.6	11.5
85°	5.7	10.3	10.3	10.3	8.0
87.5°	4.6	9.2	8.0	8.0	5.7
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	6.37	7.72	6.74	8.04	8.35	16.08	17.43	16.44	17.74	18.05
	3H	7.21	8.41	7.59	8.74	9.10	16.99	18.19	17.37	18.52	18.88
	4H	7.57	8.69	7.97	9.04	9.42	17.09	18.20	17.49	18.55	18.94
	6H	7.95	8.97	8.36	9.34	9.74	17.07	18.10	17.49	18.47	18.86
	8H	8.13	9.10	8.56	9.49	9.89	17.06	18.03	17.49	18.42	18.83
	12H	8.29	9.22	8.72	9.60	10.03	17.05	17.98	17.48	18.36	18.79
4H	2H	7.20	8.32	7.60	8.67	9.05	15.93	17.04	16.33	17.39	17.78
	3H	8.26	9.17	8.67	9.58	9.98	16.92	17.83	17.33	18.23	18.64
	4H	8.71	9.53	9.15	9.95	10.39	17.04	17.86	17.48	18.28	18.72
	6H	9.27	9.98	9.73	10.42	10.89	17.08	17.78	17.54	18.23	18.69
	8H	9.53	10.19	10.00	10.64	11.11	17.08	17.74	17.55	18.18	18.65
	12H	9.77	10.35	10.26	10.84	11.31	17.09	17.67	17.57	18.15	18.63
8H	4H	9.27	9.93	9.74	10.37	10.84	16.97	17.63	17.44	18.08	18.55
	6H	10.05	10.59	10.55	11.08	11.56	17.03	17.57	17.53	18.06	18.54
	8H	10.46	10.95	10.98	11.46	11.95	17.06	17.54	17.58	18.06	18.55
	12H	10.88	11.30	11.39	11.80	12.37	17.11	17.54	17.63	18.03	18.60
12H	4H	9.33	9.91	9.81	10.39	10.87	16.93	17.52	17.42	18.00	18.47
	6H	10.19	10.67	10.71	11.19	11.68	16.99	17.48	17.52	17.99	18.49
	8H	10.72	11.14	11.23	11.64	12.21	17.06	17.49	17.57	17.98	18.55