

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: P1061933

Luminaire Tested: S125RDRP-H1270D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061933  
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: S125RDRP-H1270D835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

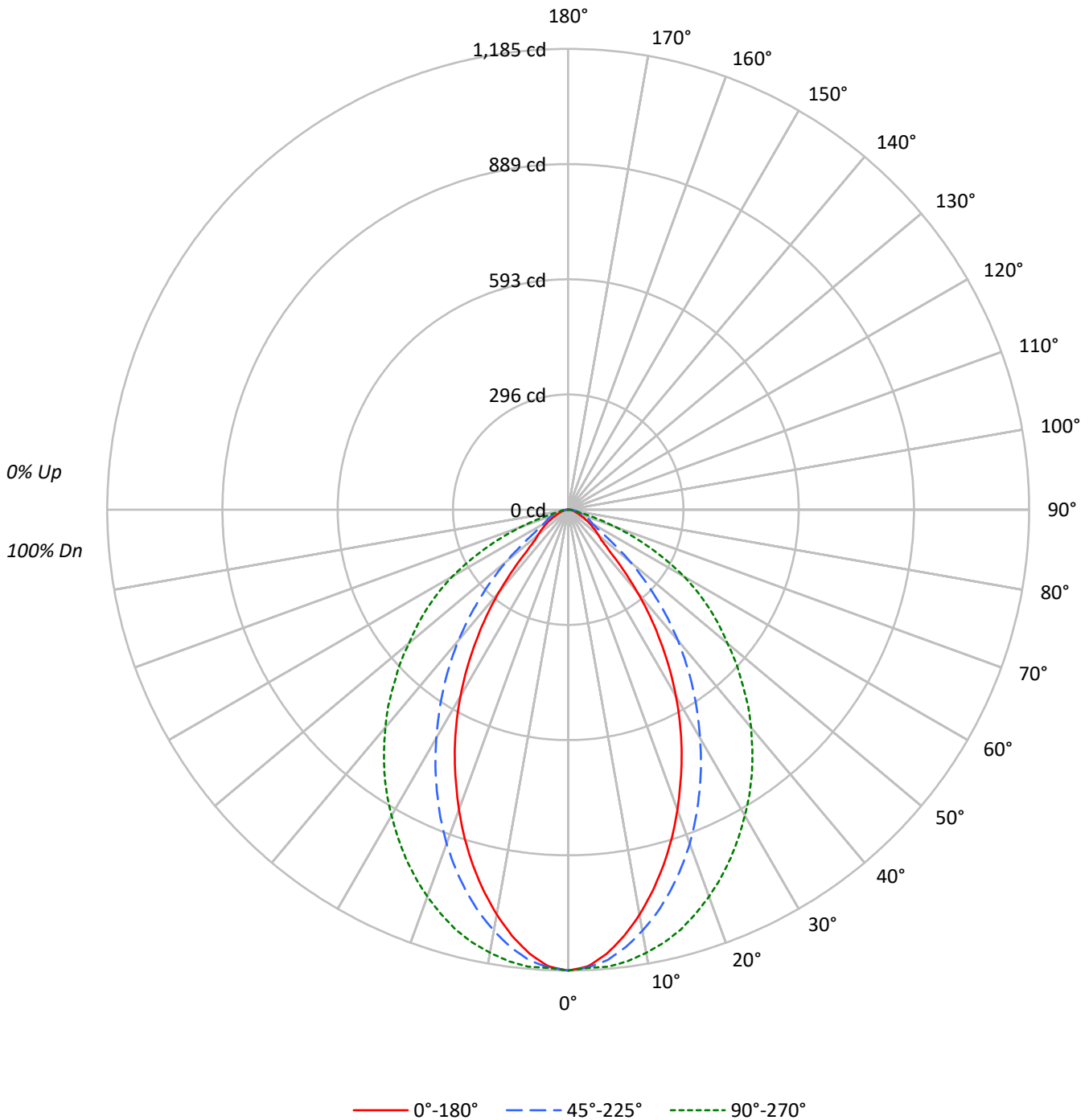
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1711.1 lumens  
Efficiency: N/A  
Efficacy: 46.9 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 (A<sub>in</sub>): 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	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																												
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																												
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																												
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70																												
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																												
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56																												
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51																												
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																												
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																												
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39																												
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36																												

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8159	8159	8159
5°	7919	8035	8151
10°	7391	7686	8088
15°	6744	7234	7966
20°	6015	6695	7756
25°	5243	6066	7507
30°	4404	5387	7220
35°	3474	4691	6924
40°	2489	3942	6570
45°	1464	3094	6160
50°	1084	2228	5722
55°	911	1350	5315
60°	735	987	4743
65°	572	938	3803
70°	481	878	2575
75°	450	785	1123
80°	444	781	726
85°	553	1003	774

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6160 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.2	6.4
10°-20°	286.8	16.8
20°-30°	374.9	21.9
30°-40°	364.9	21.3
40°-50°	272.7	15.9
50°-60°	169.1	9.9
60°-70°	88.9	5.2
70°-80°	32.4	1.9
80°-90°	12.2	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°	770.9	45.1
0°-40°	1135.8	66.4
0°-60°	1577.7	92.2
0°-90°	1711.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1711.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1146	1161	1162	1170	1179	107
15°	946	974	1015	1077	1118	264
25°	690	725	798	907	988	315
35°	413	458	558	707	824	257
45°	150	197	318	496	633	127
55°	76	80	112	292	443	68
65°	35	38	58	124	233	37
75°	17	20	30	32	42	18
85°	7	13	13	13	10	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	<i>1185.0</i>	<i>1185.0</i>	<i>1185.0</i>	<i>1185.0</i>	<i>1185.0</i>
2.5°	<i>1175.2</i>	1185.0	1178.0	1178.0	1179.4
5°	<i>1145.7</i>	1161.1	1162.5	1169.6	1179.4
7.5°	<i>1104.9</i>	1123.2	1134.4	1155.5	1171.0
10°	<i>1057.1</i>	1078.2	1099.3	1134.4	1156.9
12.5°	<i>1003.7</i>	1029.0	1059.9	1107.7	1140.0
15°	<i>946.1</i>	974.2	1014.9	1076.8	1117.6
17.5°	<i>885.6</i>	915.1	965.7	1040.2	1089.4
20°	<i>820.9</i>	853.3	913.7	998.1	1058.5
22.5°	<i>754.9</i>	791.4	857.5	953.1	1024.8
25°	<i>690.2</i>	725.4	798.5	906.7	988.2
27.5°	<i>622.7</i>	659.3	739.4	858.9	948.9
30°	<i>553.9</i>	593.2	677.6	809.7	908.1
32.5°	<i>485.0</i>	525.7	617.1	759.1	867.3
35°	<i>413.3</i>	458.3	558.1	707.1	823.8
37.5°	<i>345.8</i>	393.6	497.6	653.7	777.4
40°	<i>276.9</i>	326.1	438.6	601.7	731.0
42.5°	<i>209.5</i>	260.1	378.1	548.2	684.6
45°	<i>150.4</i>	196.8	317.7	496.2	632.6
47.5°	<i>115.3</i>	142.0	261.5	442.8	586.2
50°	<i>101.2</i>	109.6	208.0	390.8	534.2
52.5°	<i>88.6</i>	94.2	154.6	340.2	489.2
55°	<i>75.9</i>	80.1	112.5	292.4	442.8
57.5°	<i>64.7</i>	68.9	85.7	248.8	395.0
60°	<i>53.4</i>	57.6	71.7	205.2	344.4
62.5°	<i>45.0</i>	46.4	64.7	164.5	288.2
65°	<i>35.1</i>	38.0	57.6	123.7	233.4
67.5°	<i>29.5</i>	30.9	50.6	88.6	179.9
70°	<i>23.9</i>	25.3	43.6	61.9	127.9
72.5°	<i>21.1</i>	21.1	36.5	45.0	81.5
75°	<i>16.9</i>	19.7	29.5	32.3	42.2
77.5°	<i>14.1</i>	19.7	25.3	23.9	22.5
80°	<i>11.2</i>	18.3	19.7	19.7	18.3
82.5°	<i>9.8</i>	15.5	16.9	15.5	14.1
85°	<i>7.0</i>	12.7	12.7	12.7	9.8
87.5°	<i>5.6</i>	11.2	9.8	9.8	7.0
90°	<i>0.0</i>	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	7.08	8.43	7.45	8.74	9.06	16.78	18.13	17.15	18.45	18.76
	3H	7.92	9.12	8.30	9.45	9.81	17.70	18.89	18.08	19.22	19.59
	4H	8.28	9.40	8.68	9.75	10.13	17.79	18.91	18.20	19.26	19.64
	6H	8.65	9.68	9.07	10.05	10.44	17.78	18.81	18.19	19.18	19.57
	8H	8.83	9.81	9.26	10.20	10.60	17.77	18.74	18.20	19.13	19.54
	12H	8.99	9.92	9.43	10.31	10.74	17.75	18.68	18.19	19.07	19.50
4H	2H	7.91	9.03	8.31	9.38	9.76	16.63	17.75	17.04	18.10	18.48
	3H	8.97	9.88	9.38	10.28	10.69	17.62	18.54	18.04	18.94	19.34
	4H	9.42	10.24	9.86	10.66	11.10	17.75	18.57	18.19	18.99	19.43
	6H	9.98	10.69	10.44	11.13	11.60	17.79	18.49	18.25	18.94	19.40
	8H	10.24	10.90	10.71	11.35	11.82	17.79	18.45	18.25	18.89	19.36
	12H	10.48	11.06	10.97	11.55	12.02	17.79	18.38	18.28	18.86	19.33
8H	4H	9.98	10.64	10.45	11.08	11.55	17.68	18.34	18.15	18.78	19.25
	6H	10.76	11.30	11.26	11.79	12.27	17.74	18.28	18.24	18.77	19.25
	8H	11.17	11.66	11.69	12.17	12.66	17.77	18.25	18.29	18.77	19.26
	12H	11.59	12.02	12.10	12.51	13.08	17.82	18.25	18.33	18.74	19.31
12H	4H	10.04	10.62	10.52	11.10	11.58	17.64	18.23	18.13	18.71	19.18
	6H	10.90	11.39	11.42	11.90	12.39	17.70	18.19	18.22	18.70	19.19
	8H	11.43	11.86	11.94	12.35	12.92	17.77	18.20	18.28	18.69	19.26