

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: P1061528

Luminaire Tested: S125RDRP-S1270D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061528  
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-S1270D835-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

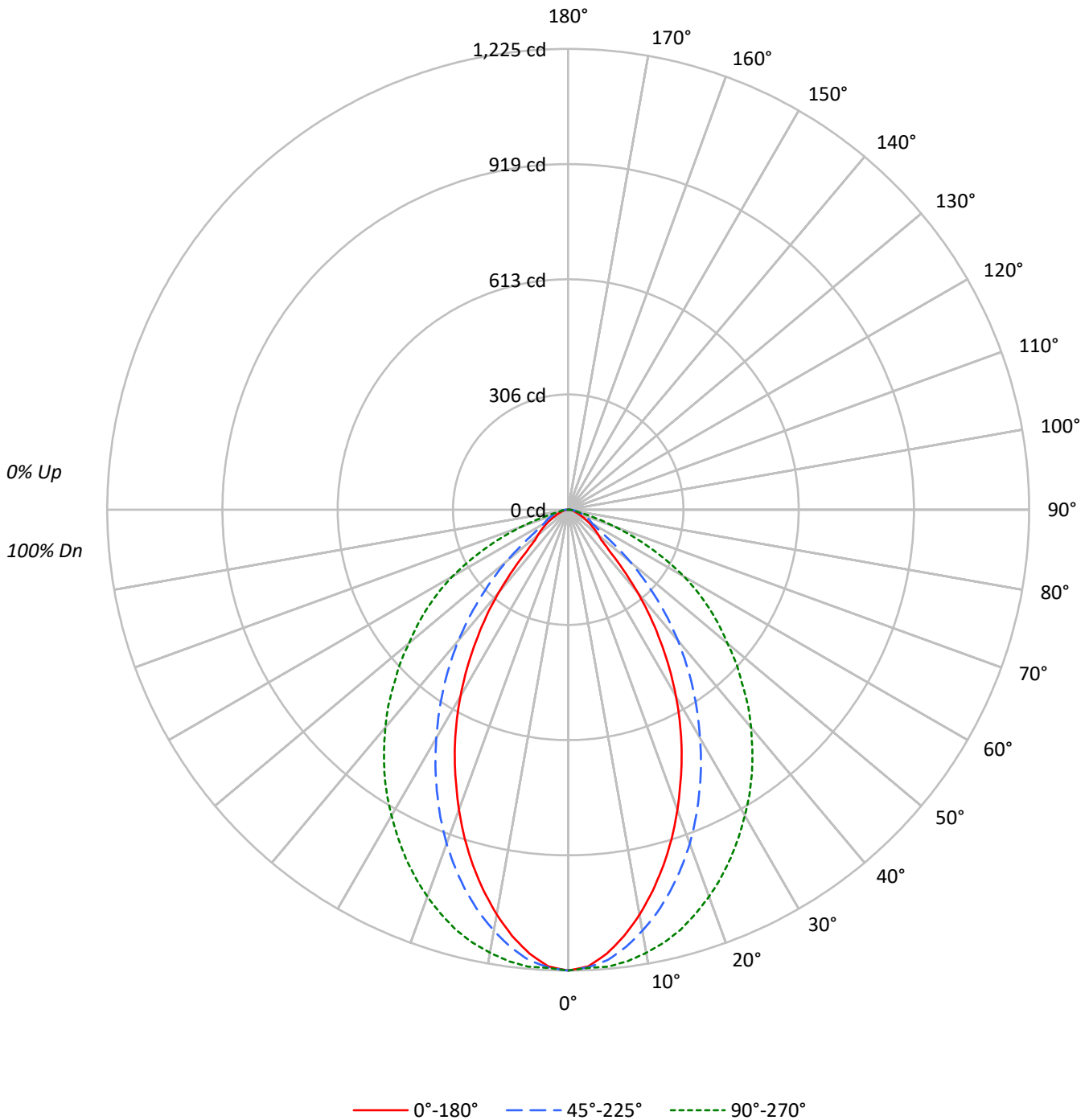
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1768.9 lumens  
Efficiency: N/A  
Efficacy: 42.3 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): 41.8  
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	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°	8434	8434	8434
5°	8186	8306	8427
10°	7640	7945	8362
15°	6971	7479	8235
20°	6219	6921	8018
25°	5420	6271	7761
30°	4552	5568	7464
35°	3591	4849	7158
40°	2573	4075	6792
45°	1514	3198	6367
50°	1120	2304	5915
55°	942	1396	5495
60°	760	1020	4902
65°	591	971	3930
70°	497	906	2661
75°	463	811	1160
80°	460	805	749
85°	577	1035	806

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6367 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.9	6.4
10°-20°	296.5	16.8
20°-30°	387.5	21.9
30°-40°	377.2	21.3
40°-50°	281.9	15.9
50°-60°	174.9	9.9
60°-70°	91.8	5.2
70°-80°	33.5	1.9
80°-90°	12.6	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°	796.9	45.1
0°-40°	1174.2	66.4
0°-60°	1630.9	92.2
0°-90°	1768.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1768.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1225	1225	1225	1225	1225	
5°	1184	1200	1202	1209	1219	110
15°	978	1007	1049	1113	1155	273
25°	714	750	825	937	1022	326
35°	427	474	577	731	852	266
45°	156	203	328	513	654	131
55°	78	83	116	302	458	71
65°	36	39	60	128	241	38
75°	17	20	30	33	44	19
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°	1225.0	1225.0	1225.0	1225.0	1225.0
2.5°	1214.9	1225.0	1217.8	1217.8	1219.2
5°	1184.4	1200.3	1201.8	1209.1	1219.2
7.5°	1142.2	1161.1	1172.7	1194.5	1210.5
10°	1092.8	1114.6	1136.4	1172.7	1196.0
12.5°	1037.6	1063.7	1095.7	1145.1	1178.5
15°	978.0	1007.1	1049.2	1113.2	1155.3
17.5°	915.5	946.0	998.3	1075.4	1126.2
20°	848.7	882.1	944.6	1031.8	1094.3
22.5°	780.4	818.2	886.5	985.3	1059.4
25°	713.5	749.9	825.4	937.3	1021.6
27.5°	643.8	681.6	764.4	887.9	980.9
30°	572.6	613.3	700.4	837.0	938.8
32.5°	501.4	543.5	638.0	784.7	896.6
35°	427.2	473.7	576.9	731.0	851.6
37.5°	357.5	406.9	514.4	675.7	803.6
40°	286.3	337.1	453.4	622.0	755.7
42.5°	216.5	268.8	390.9	566.7	707.7
45°	155.5	203.4	328.4	513.0	653.9
47.5°	119.2	146.8	270.3	457.8	606.0
50°	104.6	113.3	215.1	404.0	552.2
52.5°	91.6	97.4	159.9	351.7	505.7
55°	78.5	82.8	116.3	302.3	457.8
57.5°	66.8	71.2	88.6	257.2	408.3
60°	55.2	59.6	74.1	212.2	356.0
62.5°	46.5	48.0	66.8	170.0	297.9
65°	36.3	39.2	59.6	127.9	241.2
67.5°	30.5	32.0	52.3	91.6	186.0
70°	24.7	26.2	45.0	63.9	132.2
72.5°	21.8	21.8	37.8	46.5	84.3
75°	17.4	20.3	30.5	33.4	43.6
77.5°	14.5	20.3	26.2	24.7	23.3
80°	11.6	18.9	20.3	20.3	18.9
82.5°	10.2	16.0	17.4	16.0	14.5
85°	7.3	13.1	13.1	13.1	10.2
87.5°	5.8	11.6	10.2	10.2	7.3
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	7.19	8.54	7.56	8.86	9.17	16.90	18.25	17.26	18.56	18.88
	3H	8.03	9.23	8.41	9.56	9.93	17.81	19.01	18.19	19.34	19.70
	4H	8.39	9.51	8.79	9.86	10.24	17.91	19.03	18.31	19.38	19.76
	6H	8.76	9.79	9.18	10.16	10.55	17.90	18.92	18.31	19.29	19.69
	8H	8.95	9.92	9.37	10.31	10.71	17.88	18.86	18.31	19.25	19.65
	12H	9.11	10.04	9.54	10.42	10.85	17.87	18.80	18.30	19.18	19.61
4H	2H	8.02	9.14	8.43	9.49	9.87	16.75	17.87	17.15	18.22	18.60
	3H	9.08	10.00	9.50	10.40	10.80	17.74	18.65	18.15	19.06	19.46
	4H	9.54	10.35	9.97	10.77	11.22	17.87	18.69	18.30	19.10	19.55
	6H	10.09	10.80	10.55	11.24	11.71	17.90	18.61	18.36	19.05	19.52
	8H	10.35	11.01	10.82	11.46	11.93	17.90	18.56	18.37	19.01	19.48
	12H	10.60	11.18	11.08	11.66	12.14	17.91	18.49	18.39	18.98	19.45
8H	4H	10.09	10.75	10.56	11.20	11.67	17.79	18.45	18.26	18.90	19.37
	6H	10.87	11.41	11.37	11.90	12.38	17.85	18.39	18.35	18.89	19.37
	8H	11.29	11.77	11.81	12.28	12.78	17.88	18.37	18.40	18.88	19.37
	12H	11.70	12.13	12.22	12.63	13.20	17.94	18.36	18.45	18.86	19.43
12H	4H	10.15	10.74	10.64	11.22	11.69	17.76	18.34	18.24	18.82	19.30
	6H	11.01	11.50	11.53	12.01	12.50	17.82	18.30	18.34	18.82	19.31
	8H	11.54	11.97	12.05	12.46	13.03	17.88	18.31	18.40	18.81	19.38