

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: P1175357

Luminaire Tested: S125RDRP-S1270D835-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1175357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/18/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1270D835-X4F0-XX-UDD-WVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

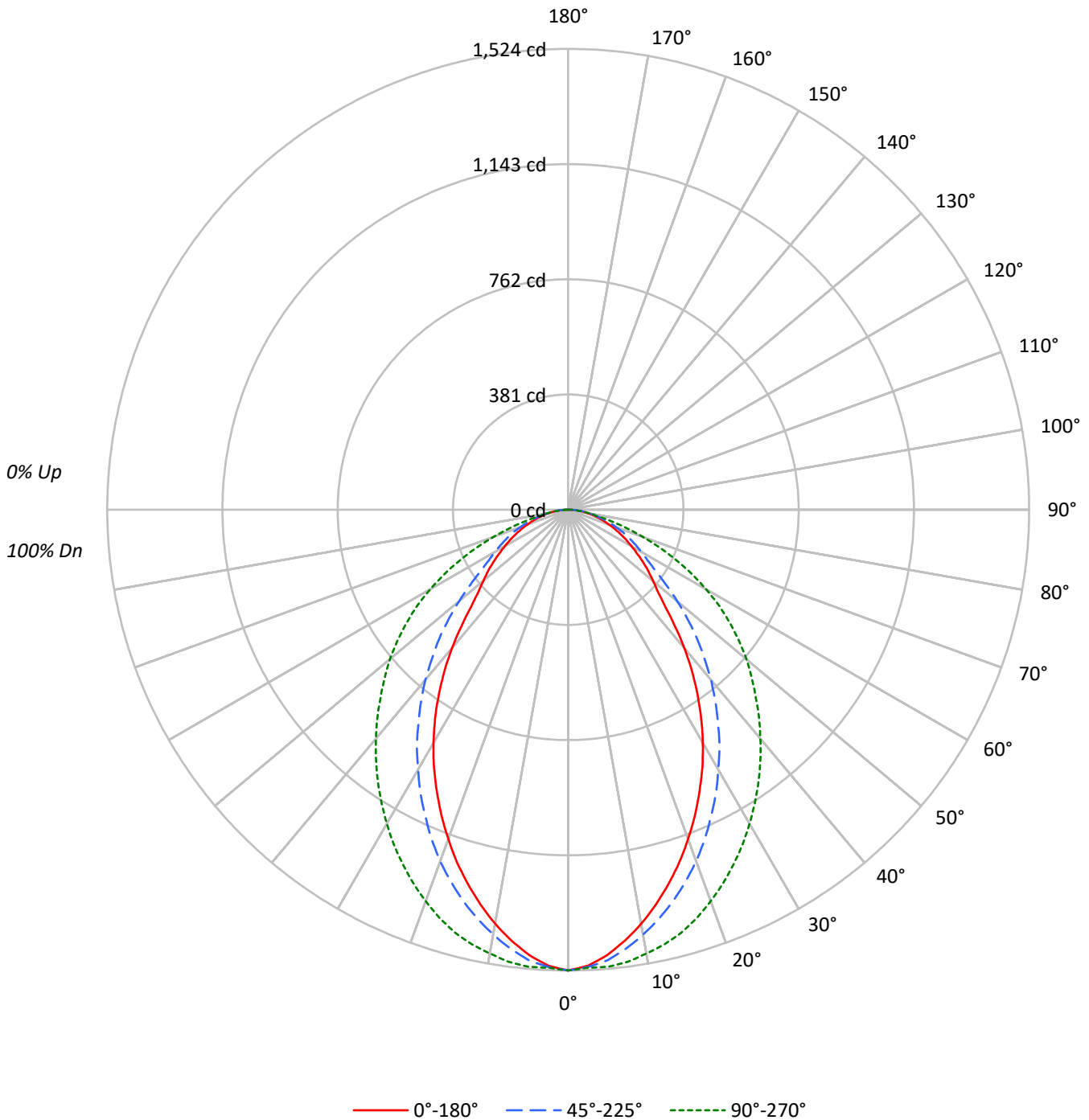
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2870.8 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12  
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32

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

	0°	45°	90°
0°	10492	10492	10492
5°	10219	10336	10488
10°	9722	9975	10419
15°	9138	9553	10318
20°	8493	9061	10095
25°	7803	8491	9828
30°	7076	7888	9534
35°	6263	7252	9221
40°	5371	6593	8883
45°	4409	5870	8540
50°	3921	5044	8245
55°	3618	4224	7827
60°	3331	3847	7250
65°	3099	3625	6406
70°	2891	3386	5234
75°	2719	3131	3924
80°	2565	2871	2819
85°	2354	2860	2354

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8540 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.1	4.9
10°-20°	380.2	13.2
20°-30°	523.1	18.2
30°-40°	554.8	19.3
40°-50°	485.6	16.9
50°-60°	372.6	13.0
60°-70°	248.2	8.6
70°-80°	127.3	4.4
80°-90°	37.8	1.3
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°	1044.5	36.4
0°-40°	1599.3	55.7
0°-60°	2457.6	85.6
0°-90°	2870.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1479	1498	1495	1506	1517	138
15°	1282	1312	1340	1404	1448	359
25°	1027	1062	1118	1212	1294	472
35°	745	780	863	990	1097	464
45°	453	490	603	753	877	358
55°	301	308	352	523	652	270
65°	190	192	222	292	393	189
75°	102	109	118	124	148	109
85°	30	34	36	35	30	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1523.8	1523.8	1523.8	1523.8	1523.8
2.5°	1509.6	1525.1	1513.5	1514.8	1516.1
5°	1478.6	1498.0	1495.4	1505.7	1517.4
7.5°	1437.2	1457.9	1464.3	1490.2	1508.3
10°	1390.6	1413.9	1426.8	1465.6	1490.2
12.5°	1337.6	1364.7	1385.4	1435.9	1472.1
15°	1281.9	1311.7	1340.2	1403.5	1447.5
17.5°	1222.4	1252.2	1289.7	1362.1	1415.2
20°	1159.1	1191.4	1236.7	1314.3	1377.7
22.5°	1094.4	1128.0	1179.7	1265.1	1337.6
25°	1027.1	1062.0	1117.7	1212.1	1293.6
27.5°	961.1	993.5	1058.2	1159.1	1248.3
30°	890.0	923.6	992.2	1103.4	1199.2
32.5°	818.8	852.5	931.4	1047.8	1148.7
35°	745.1	780.0	862.8	989.6	1097.0
37.5°	671.4	707.6	799.4	930.1	1043.9
40°	597.6	636.4	733.5	870.6	988.3
42.5°	522.6	564.0	666.2	812.4	934.0
45°	452.8	490.3	602.8	752.9	877.0
47.5°	402.3	424.3	535.5	692.1	822.7
50°	366.1	376.4	470.9	633.9	769.7
52.5°	333.7	340.2	407.5	579.5	711.5
55°	301.4	307.9	351.9	522.6	652.0
57.5°	270.4	274.2	310.5	465.7	592.5
60°	241.9	244.5	279.4	408.8	526.5
62.5°	216.0	217.3	249.7	350.6	460.5
65°	190.2	191.5	222.5	292.3	393.2
67.5°	166.9	166.9	196.6	239.3	328.6
70°	143.6	143.6	168.2	194.0	260.0
72.5°	122.9	125.5	142.3	156.5	203.1
75°	102.2	108.7	117.7	124.2	147.5
77.5°	82.8	90.6	94.4	97.0	98.3
80°	64.7	69.9	72.4	73.7	71.1
82.5°	47.9	51.7	53.0	53.0	49.2
85°	29.8	33.6	36.2	34.9	29.8
87.5°	14.2	19.4	20.7	18.1	14.2
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	14.78	16.28	15.15	16.59	16.91	18.81	20.31	19.17	20.62	20.93
	3H	16.37	17.71	16.75	18.04	18.40	20.19	21.54	20.57	21.87	22.23
	4H	17.01	18.27	17.41	18.62	19.00	20.60	21.86	21.00	22.21	22.59
	6H	17.52	18.69	17.93	19.05	19.45	20.81	21.97	21.22	22.34	22.73
	8H	17.70	18.81	18.13	19.20	19.60	20.86	21.97	21.29	22.36	22.76
	12H	17.83	18.89	18.26	19.27	19.70	20.90	21.96	21.33	22.34	22.77
4H	2H	15.55	16.81	15.95	17.16	17.54	18.94	20.20	19.34	20.55	20.93
	3H	17.33	18.38	17.74	18.78	19.18	20.51	21.55	20.92	21.95	22.35
	4H	18.10	19.04	18.53	19.46	19.90	21.02	21.96	21.45	22.37	22.81
	6H	18.74	19.56	19.20	20.00	20.46	21.34	22.16	21.80	22.61	23.07
	8H	18.97	19.74	19.44	20.18	20.65	21.44	22.21	21.91	22.65	23.12
	12H	19.14	19.83	19.63	20.31	20.78	21.51	22.20	22.00	22.68	23.15
8H	4H	18.49	19.25	18.95	19.70	20.16	21.12	21.88	21.58	22.33	22.79
	6H	19.26	19.90	19.76	20.39	20.87	21.54	22.17	22.03	22.66	23.14
	8H	19.58	20.15	20.09	20.66	21.15	21.69	22.26	22.21	22.77	23.26
	12H	19.84	20.34	20.35	20.84	21.40	21.83	22.33	22.34	22.83	23.39
12H	4H	18.53	19.21	19.01	19.69	20.16	21.12	21.80	21.60	22.28	22.75
	6H	19.34	19.91	19.85	20.42	20.90	21.55	22.12	22.06	22.63	23.11
	8H	19.72	20.22	20.23	20.72	21.28	21.76	22.26	22.27	22.75	23.32