

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: P1175357

Luminaire Tested: S125RDR-S1270D835-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
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: S125RDR-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: -

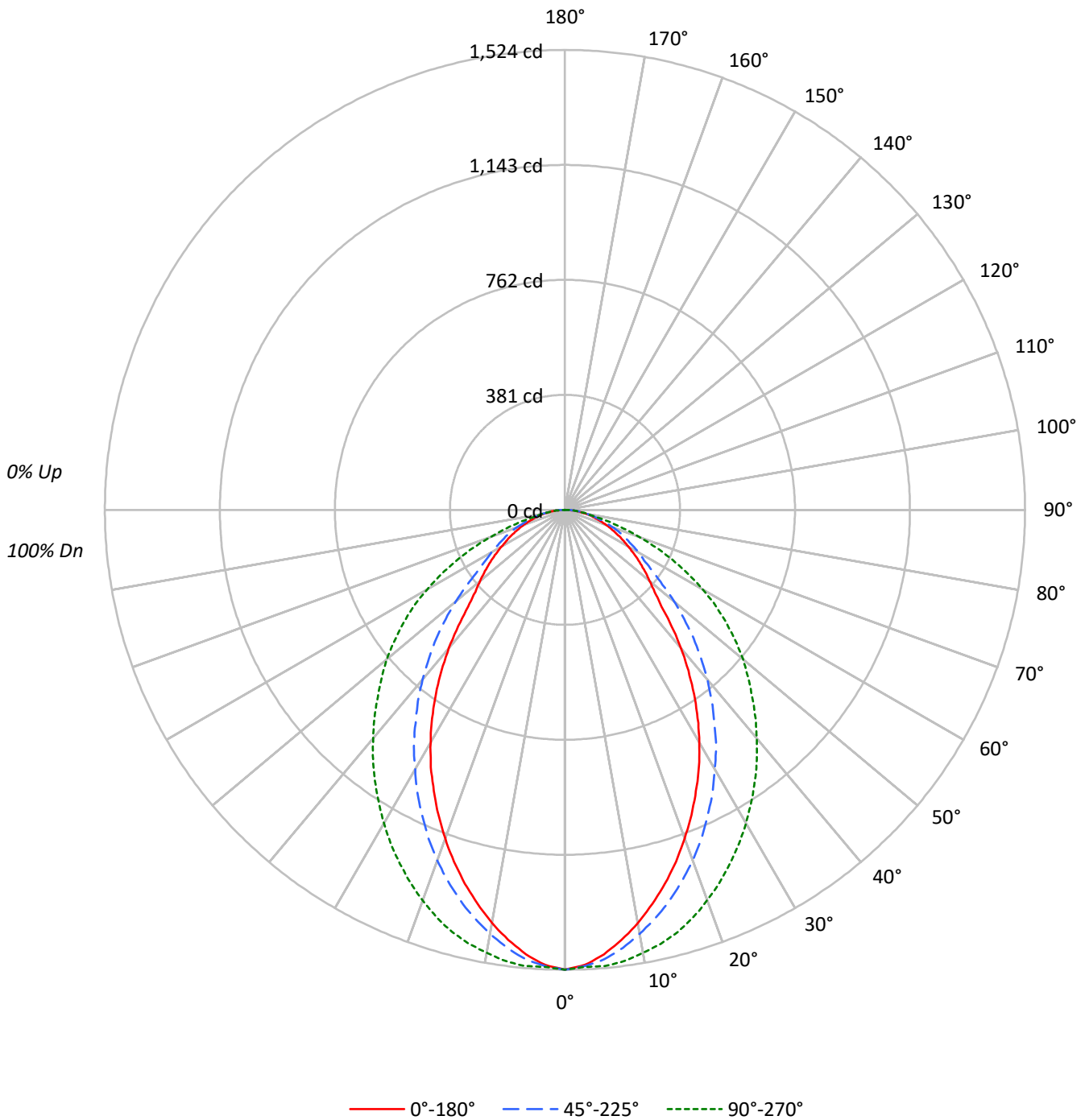
**Summary**

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 (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

**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

(END OF REPORT)