

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: P1061529

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)  
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-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

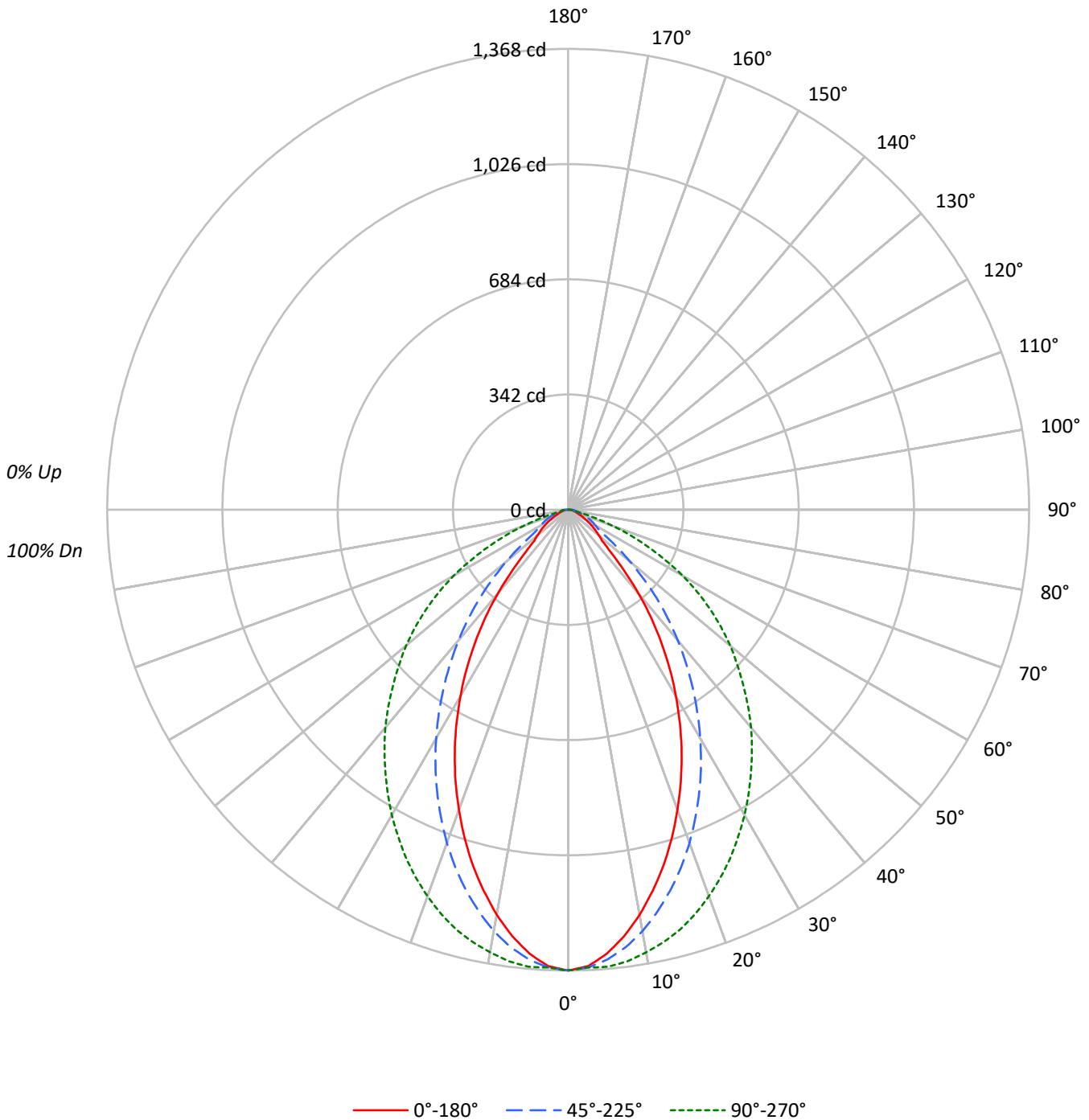
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1981.0 lumens  
Efficiency: N/A  
Efficacy: 47.4 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	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	105	103	100	101	99	97	98	96	94	94	92	91	89																												
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																												
3	96	88	81	76	94	86	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	62																												
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56																												
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39																												
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36																												

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

	0°	45°	90°
0°	9417	9417	9417
5°	9141	9262	9413
10°	8536	8881	9329
15°	7791	8340	9190
20°	6943	7710	8946
25°	6051	7001	8657
30°	5084	6228	8320
35°	4044	5412	7953
40°	2913	4546	7590
45°	1726	3609	7147
50°	1277	2569	6726
55°	1082	1588	6159
60°	881	1281	5424
65°	686	1184	4286
70°	586	1025	2867
75°	540	889	1160
80°	575	924	805
85°	687	1375	916

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7147 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	6.4
10°-20°	331.1	16.7
20°-30°	432.7	21.8
30°-40°	421.5	21.3
40°-50°	316.2	16.0
50°-60°	198.2	10.0
60°-70°	103.2	5.2
70°-80°	37.3	1.9
80°-90°	14.8	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°	889.8	44.9
0°-40°	1311.4	66.2
0°-60°	1825.7	92.2
0°-90°	1981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1981.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1323	1340	1340	1350	1362	123
15°	1093	1125	1170	1243	1289	305
25°	796	840	922	1046	1140	364
35°	481	532	644	815	946	299
45°	177	230	371	573	734	149
55°	90	94	132	346	513	80
65°	42	45	73	140	263	43
75°	20	28	33	35	44	22
85°	9	14	17	16	12	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1356.1	1369.1	1360.4	1360.4	1360.4
5°	1322.6	1340.1	1340.1	1350.2	1361.9
7.5°	1276.1	1296.5	1309.5	1334.3	1351.7
10°	1220.9	1245.6	1270.3	1311.0	1334.3
12.5°	1158.4	1187.5	1222.3	1279.0	1313.9
15°	1093.0	1125.0	1170.0	1242.7	1289.2
17.5°	1021.8	1059.6	1113.3	1200.5	1257.2
20°	947.6	985.4	1052.3	1151.1	1220.9
22.5°	873.5	914.2	986.9	1098.8	1181.6
25°	796.5	840.1	921.5	1046.5	1139.5
27.5°	718.0	763.1	853.2	992.7	1093.0
30°	639.5	686.0	783.4	934.6	1046.5
32.5°	561.0	610.4	713.6	875.0	997.1
35°	481.1	532.0	643.9	815.4	946.2
37.5°	404.1	454.9	574.1	754.3	895.3
40°	324.1	379.3	505.8	693.3	844.4
42.5°	245.6	302.3	437.5	632.2	789.2
45°	177.3	229.6	370.6	572.7	734.0
47.5°	136.6	165.7	302.3	511.6	680.2
50°	119.2	127.9	239.8	454.9	627.9
52.5°	103.2	109.0	180.2	402.6	571.2
55°	90.1	94.5	132.3	345.9	513.1
57.5°	75.6	81.4	104.6	290.7	453.5
60°	64.0	66.9	93.0	239.8	393.9
62.5°	52.3	55.2	82.8	188.9	327.0
65°	42.1	45.1	72.7	139.5	263.1
67.5°	34.9	36.3	61.0	98.8	202.0
70°	29.1	30.5	50.9	68.3	142.4
72.5°	24.7	29.1	40.7	49.4	90.1
75°	20.3	27.6	33.4	34.9	43.6
77.5°	17.4	26.2	27.6	27.6	24.7
80°	14.5	21.8	23.3	21.8	20.3
82.5°	11.6	17.4	18.9	18.9	16.0
85°	8.7	14.5	17.4	16.0	11.6
87.5°	5.8	13.1	14.5	13.1	8.7
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	7.71	9.06	8.08	9.38	9.69	17.32	18.67	17.69	18.99	19.30
	3H	8.57	9.77	8.95	10.10	10.46	18.16	19.36	18.54	19.69	20.06
	4H	8.99	10.11	9.39	10.46	10.84	18.24	19.36	18.64	19.71	20.09
	6H	9.42	10.45	9.83	10.82	11.21	18.22	19.25	18.63	19.62	20.01
	8H	9.60	10.57	10.02	10.96	11.37	18.21	19.18	18.64	19.57	19.98
	12H	9.76	10.69	10.19	11.07	11.50	18.20	19.13	18.63	19.51	19.94
4H	2H	8.67	9.79	9.08	10.14	10.53	17.19	18.30	17.59	18.66	19.04
	3H	9.73	10.64	10.14	11.05	11.45	18.10	19.01	18.51	19.42	19.82
	4H	10.29	11.11	10.72	11.53	11.97	18.20	19.02	18.63	19.44	19.88
	6H	10.89	11.59	11.35	12.04	12.51	18.22	18.93	18.69	19.38	19.84
	8H	11.12	11.78	11.59	12.23	12.70	18.23	18.89	18.69	19.33	19.80
	12H	11.35	11.93	11.83	12.42	12.89	18.24	18.82	18.72	19.31	19.78
8H	4H	10.76	11.42	11.23	11.87	12.34	18.12	18.78	18.59	19.23	19.70
	6H	11.57	12.11	12.07	12.61	13.09	18.18	18.72	18.68	19.21	19.69
	8H	11.95	12.44	12.47	12.95	13.44	18.21	18.70	18.73	19.21	19.70
	12H	12.34	12.77	12.85	13.26	13.83	18.27	18.70	18.79	19.20	19.77
12H	4H	10.81	11.39	11.30	11.88	12.35	18.09	18.67	18.57	19.16	19.63
	6H	11.69	12.18	12.21	12.69	13.19	18.14	18.63	18.66	19.14	19.64
	8H	12.18	12.61	12.70	13.10	13.68	18.21	18.64	18.73	19.14	19.71