

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: P1175361

Luminaire Tested: S125RDRP-S1270D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1175361  
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-S1270D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

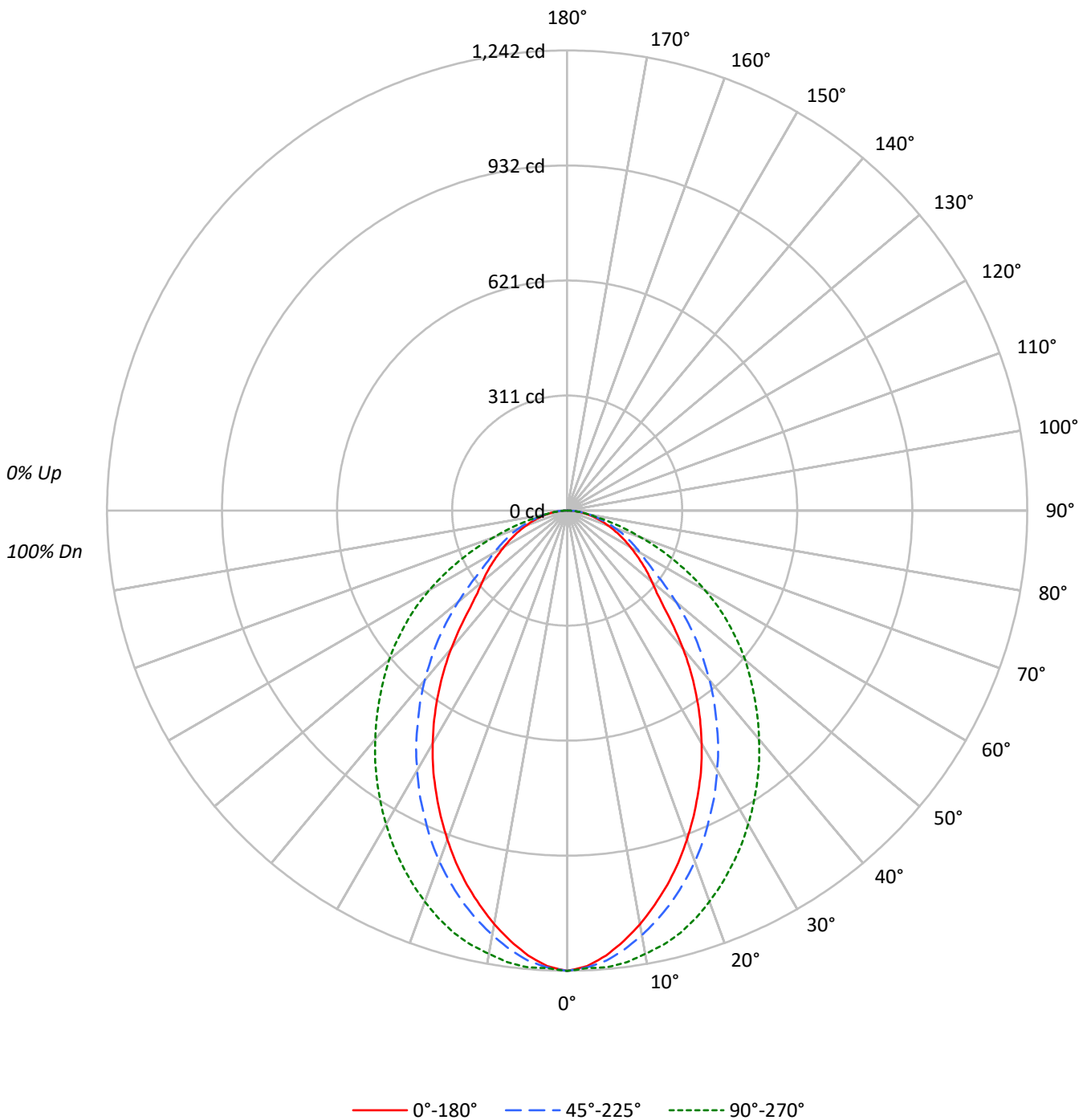
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2340.6 lumens  
Efficiency: N/A  
Efficacy: 56.0 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	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°	8554	8554	8554
5°	8332	8427	8550
10°	7927	8133	8495
15°	7450	7788	8413
20°	6924	7388	8230
25°	6362	6922	8013
30°	5769	6431	7773
35°	5106	5913	7517
40°	4380	5375	7243
45°	3594	4786	6963
50°	3197	4112	6721
55°	2949	3444	6380
60°	2716	3137	5910
65°	2525	2955	5223
70°	2357	2760	4268
75°	2216	2554	3198
80°	2090	2343	2300
85°	1920	2330	1920

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6963 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.0	4.9
10°-20°	310.0	13.2
20°-30°	426.5	18.2
30°-40°	452.4	19.3
40°-50°	395.9	16.9
50°-60°	303.8	13.0
60°-70°	202.4	8.6
70°-80°	103.8	4.4
80°-90°	30.8	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°	851.5	36.4
0°-40°	1303.9	55.7
0°-60°	2003.6	85.6
0°-90°	2340.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2340.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1206	1221	1219	1228	1237	113
15°	1045	1069	1093	1144	1180	293
25°	837	866	911	988	1055	385
35°	608	636	704	807	894	379
45°	369	400	492	614	715	292
55°	246	251	287	426	532	220
65°	155	156	181	238	321	154
75°	83	89	96	101	120	89
85°	24	27	30	28	24	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1242.4	1242.4	1242.4	1242.4	1242.4
2.5°	1230.8	1243.4	1233.9	1235.0	1236.1
5°	1205.5	1221.3	1219.2	1227.6	1237.1
7.5°	1171.7	1188.6	1193.9	1215.0	1229.7
10°	1133.8	1152.7	1163.3	1194.9	1215.0
12.5°	1090.5	1112.7	1129.5	1170.7	1200.2
15°	1045.2	1069.4	1092.6	1144.3	1180.2
17.5°	996.7	1020.9	1051.5	1110.6	1153.8
20°	945.0	971.3	1008.3	1071.5	1123.2
22.5°	892.2	919.7	961.8	1031.5	1090.5
25°	837.4	865.9	911.2	988.2	1054.7
27.5°	783.6	810.0	862.7	945.0	1017.7
30°	725.6	753.0	808.9	899.6	977.7
32.5°	667.6	695.0	759.4	854.3	936.5
35°	607.5	636.0	703.5	806.8	894.3
37.5°	547.4	576.9	651.8	758.3	851.1
40°	487.3	518.9	598.0	709.8	805.8
42.5°	426.1	459.8	543.1	662.3	761.5
45°	369.1	399.7	491.5	613.8	715.1
47.5°	328.0	345.9	436.6	564.2	670.8
50°	298.5	306.9	383.9	516.8	627.5
52.5°	272.1	277.4	332.2	472.5	580.1
55°	245.7	251.0	286.9	426.1	531.5
57.5°	220.4	223.6	253.1	379.7	483.0
60°	197.2	199.3	227.8	333.3	429.2
62.5°	176.1	177.2	203.5	285.8	375.5
65°	155.0	156.1	181.4	238.4	320.6
67.5°	136.1	136.1	160.3	195.1	267.9
70°	117.1	117.1	137.1	158.2	212.0
72.5°	100.2	102.3	116.0	127.6	165.6
75°	83.3	88.6	96.0	101.2	120.2
77.5°	67.5	73.8	77.0	79.1	80.2
80°	52.7	57.0	59.1	60.1	58.0
82.5°	39.0	42.2	43.2	43.2	40.1
85°	24.3	27.4	29.5	28.5	24.3
87.5°	11.6	15.8	16.9	14.8	11.6
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	14.07	15.57	14.44	15.89	16.20	18.10	19.60	18.46	19.91	20.22
	3H	15.66	17.00	16.04	17.33	17.69	19.49	20.83	19.86	21.16	21.52
	4H	16.30	17.56	16.70	17.91	18.29	19.89	21.15	20.29	21.50	21.88
	6H	16.81	17.98	17.22	18.34	18.74	20.10	21.26	20.51	21.63	22.02
	8H	16.99	18.10	17.42	18.49	18.89	20.15	21.26	20.58	21.65	22.05
	12H	17.12	18.18	17.55	18.56	18.99	20.19	21.25	20.62	21.63	22.06
4H	2H	14.84	16.10	15.24	16.45	16.83	18.23	19.49	18.63	19.84	20.22
	3H	16.63	17.67	17.04	18.07	18.47	19.80	20.84	20.21	21.24	21.65
	4H	17.39	18.33	17.83	18.75	19.19	20.31	21.25	20.74	21.66	22.10
	6H	18.03	18.85	18.49	19.29	19.75	20.63	21.45	21.09	21.90	22.36
	8H	18.26	19.03	18.73	19.47	19.94	20.73	21.50	21.20	21.94	22.41
	12H	18.43	19.12	18.92	19.60	20.07	20.81	21.49	21.29	21.97	22.44
8H	4H	17.78	18.54	18.24	18.99	19.45	20.41	21.17	20.87	21.62	22.08
	6H	18.55	19.19	19.05	19.68	20.16	20.83	21.46	21.32	21.95	22.43
	8H	18.87	19.44	19.38	19.95	20.44	20.99	21.55	21.50	22.06	22.55
	12H	19.13	19.63	19.64	20.13	20.69	21.12	21.63	21.63	22.12	22.68
12H	4H	17.82	18.50	18.30	18.98	19.45	20.41	21.09	20.89	21.57	22.04
	6H	18.63	19.20	19.14	19.71	20.20	20.84	21.41	21.35	21.92	22.41
	8H	19.01	19.51	19.52	20.01	20.57	21.05	21.55	21.56	22.04	22.61