

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: P1061556

Luminaire Tested: S125RDRP-S1270D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061556
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-S1270D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

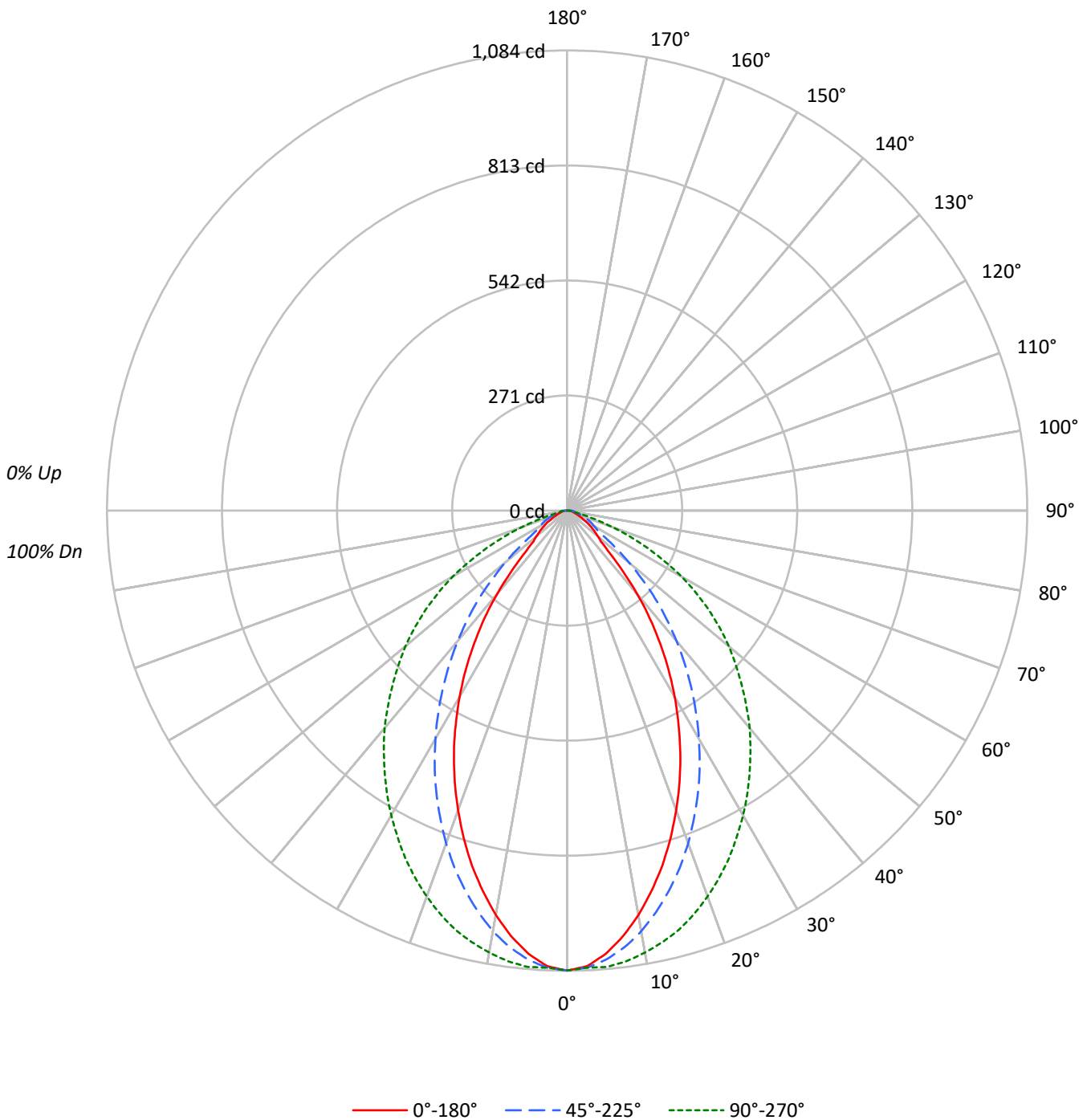
Lumens per Lamp: N/A
Luminaire Lumens: 1569.4 lumens
Efficiency: N/A
Efficacy: 37.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (A_{in}): 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	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°	7460	7460	7460
5°	7242	7337	7456
10°	6762	7036	7390
15°	6172	6607	7280
20°	5500	6108	7087
25°	4794	5546	6858
30°	4028	4934	6591
35°	3203	4288	6301
40°	2308	3602	6013
45°	1368	2859	5662
50°	1011	2035	5328
55°	857	1258	4878
60°	698	1015	4296
65°	544	938	3395
70°	463	811	2271
75°	428	705	918
80°	456	730	638
85°	545	1090	727

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5662 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	6.4
10°-20°	262.3	16.7
20°-30°	342.8	21.8
30°-40°	333.9	21.3
40°-50°	250.5	16.0
50°-60°	157.0	10.0
60°-70°	81.7	5.2
70°-80°	29.6	1.9
80°-90°	11.7	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°	704.9	44.9
0°-40°	1038.8	66.2
0°-60°	1446.3	92.2
0°-90°	1569.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1569.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1048	1062	1062	1070	1079	97
15°	866	891	927	984	1021	241
25°	631	666	730	829	903	288
35°	381	421	510	646	750	237
45°	140	182	294	454	582	118
55°	71	75	105	274	406	64
65°	33	36	58	110	208	34
75°	16	22	26	28	34	18
85°	7	12	14	13	9	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1083.5	1083.5	1083.5	1083.5	1083.5
2.5°	1074.2	1084.6	1077.7	1077.7	1077.7
5°	1047.8	1061.6	1061.6	1069.6	1078.8
7.5°	1010.9	1027.0	1037.4	1057.0	1070.8
10°	967.2	986.7	1006.3	1038.6	1057.0
12.5°	917.7	940.7	968.3	1013.2	1040.9
15°	865.8	891.2	926.9	984.4	1021.3
17.5°	809.4	839.4	882.0	951.0	996.0
20°	750.7	780.6	833.6	911.9	967.2
22.5°	692.0	724.2	781.8	870.4	936.1
25°	631.0	665.5	730.0	829.0	902.7
27.5°	568.8	604.5	675.9	786.4	865.8
30°	506.6	543.5	620.6	740.3	829.0
32.5°	444.4	483.6	565.3	693.1	789.9
35°	381.1	421.4	510.1	645.9	749.6
37.5°	320.1	360.4	454.8	597.6	709.3
40°	256.8	300.5	400.7	549.2	669.0
42.5°	194.6	239.5	346.6	500.9	625.2
45°	140.5	181.9	293.6	453.6	581.5
47.5°	108.2	131.3	239.5	405.3	538.8
50°	94.4	101.3	190.0	360.4	497.4
52.5°	81.7	86.4	142.8	318.9	452.5
55°	71.4	74.8	104.8	274.0	406.4
57.5°	59.9	64.5	82.9	230.3	359.2
60°	50.7	53.0	73.7	190.0	312.0
62.5°	41.4	43.8	65.6	149.7	259.1
65°	33.4	35.7	57.6	110.5	208.4
67.5°	27.6	28.8	48.4	78.3	160.0
70°	23.0	24.2	40.3	54.1	112.8
72.5°	19.6	23.0	32.2	39.1	71.4
75°	16.1	21.9	26.5	27.6	34.5
77.5°	13.8	20.7	21.9	21.9	19.6
80°	11.5	17.3	18.4	17.3	16.1
82.5°	9.2	13.8	15.0	15.0	12.7
85°	6.9	11.5	13.8	12.7	9.2
87.5°	4.6	10.4	11.5	10.4	6.9
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	6.90	8.25	7.27	8.57	8.88	16.51	17.86	16.88	18.18	18.49
	3H	7.76	8.96	8.14	9.29	9.65	17.35	18.55	17.73	18.88	19.25
	4H	8.18	9.30	8.58	9.65	10.03	17.43	18.55	17.83	18.90	19.28
	6H	8.61	9.64	9.02	10.01	10.40	17.41	18.44	17.82	18.81	19.20
	8H	8.79	9.76	9.22	10.15	10.56	17.40	18.37	17.83	18.76	19.17
	12H	8.95	9.88	9.38	10.26	10.69	17.39	18.32	17.82	18.70	19.13
4H	2H	7.87	8.98	8.27	9.33	9.72	16.38	17.50	16.78	17.85	18.23
	3H	8.92	9.83	9.33	10.24	10.64	17.29	18.20	17.70	18.61	19.01
	4H	9.48	10.30	9.91	10.72	11.16	17.39	18.21	17.82	18.63	19.07
	6H	10.08	10.79	10.54	11.23	11.70	17.41	18.12	17.88	18.57	19.03
	8H	10.32	10.98	10.78	11.42	11.89	17.42	18.08	17.88	18.52	18.99
	12H	10.54	11.13	11.03	11.61	12.08	17.43	18.01	17.91	18.50	18.97
8H	4H	9.95	10.61	10.42	11.06	11.53	17.31	17.97	17.78	18.42	18.89
	6H	10.76	11.30	11.26	11.80	12.28	17.37	17.91	17.87	18.40	18.88
	8H	11.14	11.63	11.66	12.14	12.63	17.40	17.89	17.92	18.40	18.89
	12H	11.53	11.96	12.05	12.46	13.03	17.46	17.89	17.98	18.39	18.96
12H	4H	10.00	10.59	10.49	11.07	11.54	17.28	17.86	17.76	18.35	18.82
	6H	10.89	11.37	11.41	11.89	12.38	17.33	17.82	17.85	18.33	18.83
	8H	11.37	11.80	11.89	12.30	12.87	17.41	17.83	17.92	18.33	18.90