

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: P1061565

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061565
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-S1270D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

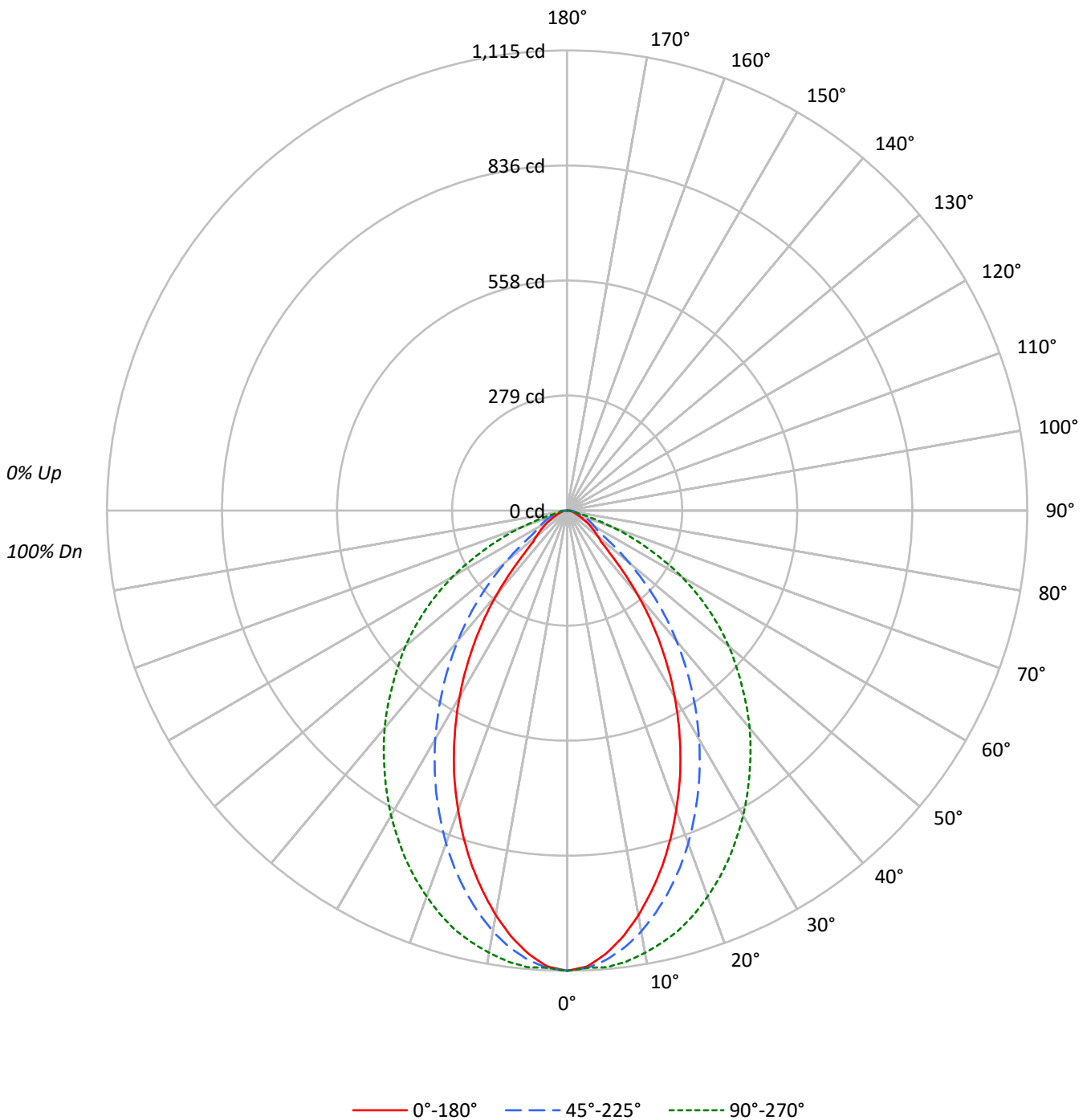
Lumens per Lamp: N/A
Luminaire Lumens: 1615.1 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	7678	7678	7678
5°	7453	7552	7674
10°	6959	7241	7605
15°	6352	6800	7492
20°	5661	6286	7293
25°	4934	5708	7058
30°	4145	5078	6783
35°	3297	4412	6484
40°	2376	3707	6188
45°	1408	2943	5827
50°	1041	2094	5483
55°	882	1294	5021
60°	717	1044	4422
65°	560	964	3495
70°	477	835	2337
75°	442	726	944
80°	468	753	658
85°	561	1122	750

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5827 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	6.4
10°-20°	269.9	16.7
20°-30°	352.8	21.8
30°-40°	343.7	21.3
40°-50°	257.8	16.0
50°-60°	161.6	10.0
60°-70°	84.1	5.2
70°-80°	30.4	1.9
80°-90°	12.1	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°	725.5	44.9
0°-40°	1069.2	66.2
0°-60°	1488.5	92.2
0°-90°	1615.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1615.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1078	1093	1093	1101	1110	100
15°	891	917	954	1013	1051	249
25°	649	685	751	853	929	297
35°	392	434	525	665	771	244
45°	145	187	302	467	598	122
55°	74	77	108	282	418	66
65°	34	37	59	114	214	35
75°	17	22	27	28	36	18
85°	7	12	14	13	10	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.1	1115.1	1115.1	1115.1	1115.1
2.5°	1105.6	1116.3	1109.1	1109.1	1109.1
5°	1078.3	1092.6	1092.6	1100.9	1110.3
7.5°	1040.4	1057.0	1067.7	1087.8	1102.0
10°	995.4	1015.5	1035.7	1068.9	1087.8
12.5°	944.4	968.1	996.6	1042.8	1071.2
15°	891.1	917.2	953.9	1013.2	1051.1
17.5°	833.0	863.9	907.7	978.8	1025.0
20°	772.6	803.4	857.9	938.5	995.4
22.5°	712.2	745.4	804.6	895.8	963.4
25°	649.4	684.9	751.3	853.2	929.0
27.5°	585.4	622.1	695.6	809.3	891.1
30°	521.4	559.3	638.7	761.9	853.2
32.5°	457.4	497.7	581.8	713.4	812.9
35°	392.2	433.7	524.9	664.8	771.4
37.5°	329.4	370.9	468.1	615.0	730.0
40°	264.3	309.3	412.4	565.2	688.5
42.5°	200.3	246.5	356.7	515.5	643.4
45°	144.6	187.2	302.2	466.9	598.4
47.5°	111.4	135.1	246.5	417.1	554.6
50°	97.2	104.3	195.5	370.9	511.9
52.5°	84.1	88.9	146.9	328.2	465.7
55°	73.5	77.0	107.8	282.0	418.3
57.5°	61.6	66.4	85.3	237.0	369.7
60°	52.1	54.5	75.8	195.5	321.1
62.5°	42.7	45.0	67.5	154.0	266.6
65°	34.4	36.7	59.2	113.8	214.5
67.5°	28.4	29.6	49.8	80.6	164.7
70°	23.7	24.9	41.5	55.7	116.1
72.5°	20.1	23.7	33.2	40.3	73.5
75°	16.6	22.5	27.3	28.4	35.5
77.5°	14.2	21.3	22.5	22.5	20.1
80°	11.8	17.8	19.0	17.8	16.6
82.5°	9.5	14.2	15.4	15.4	13.0
85°	7.1	11.8	14.2	13.0	9.5
87.5°	4.7	10.7	11.8	10.7	7.1
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	7.00	8.35	7.37	8.67	8.98	16.61	17.96	16.98	18.28	18.59
	3H	7.86	9.06	8.24	9.39	9.75	17.45	18.65	17.83	18.98	19.35
	4H	8.28	9.40	8.68	9.75	10.13	17.53	18.65	17.93	19.00	19.38
	6H	8.71	9.74	9.12	10.11	10.50	17.51	18.54	17.92	18.91	19.30
	8H	8.89	9.86	9.32	10.25	10.66	17.50	18.47	17.93	18.86	19.27
	12H	9.05	9.98	9.48	10.36	10.79	17.49	18.42	17.92	18.80	19.23
4H	2H	7.96	9.08	8.37	9.43	9.81	16.48	17.59	16.88	17.95	18.33
	3H	9.02	9.93	9.43	10.33	10.74	17.39	18.30	17.80	18.71	19.11
	4H	9.58	10.40	10.01	10.81	11.26	17.49	18.31	17.92	18.73	19.17
	6H	10.18	10.88	10.64	11.33	11.79	17.51	18.22	17.98	18.67	19.13
	8H	10.41	11.07	10.88	11.52	11.99	17.52	18.18	17.98	18.62	19.09
	12H	10.64	11.22	11.12	11.71	12.18	17.53	18.11	18.01	18.60	19.07
8H	4H	10.05	10.71	10.52	11.16	11.63	17.41	18.07	17.88	18.52	18.99
	6H	10.86	11.40	11.36	11.90	12.38	17.47	18.01	17.97	18.50	18.98
	8H	11.24	11.73	11.76	12.24	12.73	17.50	17.99	18.02	18.50	18.99
	12H	11.63	12.06	12.15	12.56	13.13	17.56	17.99	18.08	18.49	19.06
12H	4H	10.10	10.69	10.59	11.17	11.64	17.38	17.96	17.86	18.45	18.92
	6H	10.98	11.47	11.50	11.98	12.48	17.43	17.92	17.95	18.43	18.93
	8H	11.47	11.90	11.99	12.40	12.97	17.50	17.93	18.02	18.43	19.00