

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: P1061583

Luminaire Tested: S125RDRP-S1270D940-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061583
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-S1270D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

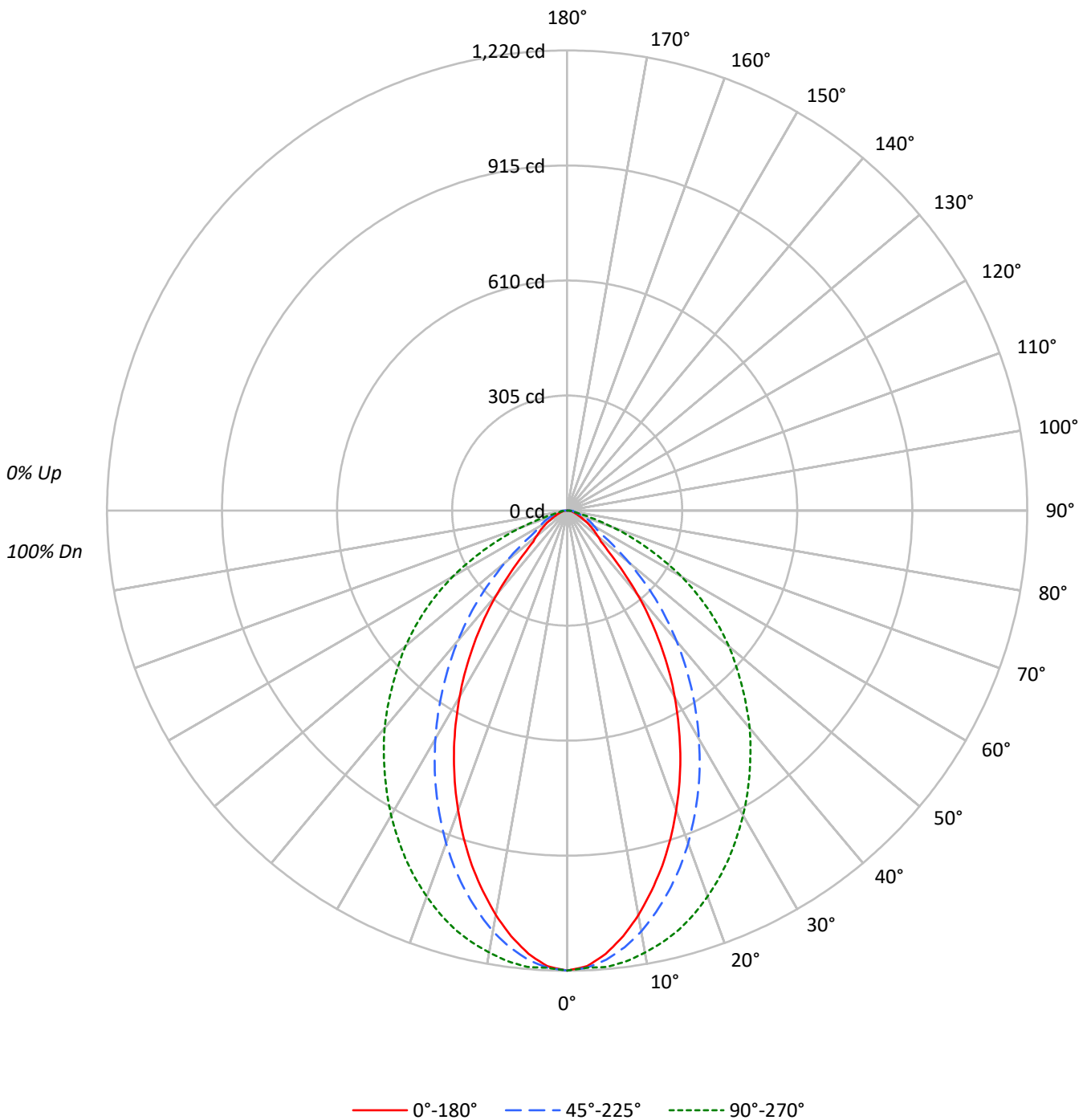
Lumens per Lamp: N/A
Luminaire Lumens: 1766.5 lumens
Efficiency: N/A
Efficacy: 42.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	8397	8397	8397
5°	8151	8259	8393
10°	7612	7919	8318
15°	6947	7437	8194
20°	6191	6875	7977
25°	5395	6242	7719
30°	4534	5554	7419
35°	3606	4825	7092
40°	2598	4054	6768
45°	1539	3218	6373
50°	1139	2290	5997
55°	965	1415	5492
60°	785	1142	4836
65°	613	1056	3822
70°	521	914	2557
75°	482	793	1035
80°	515	821	718
85°	616	1232	822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6373 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	6.4
10°-20°	295.2	16.7
20°-30°	385.9	21.8
30°-40°	375.9	21.3
40°-50°	281.9	16.0
50°-60°	176.8	10.0
60°-70°	92.0	5.2
70°-80°	33.3	1.9
80°-90°	13.2	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°	793.5	44.9
0°-40°	1169.4	66.2
0°-60°	1628.0	92.2
0°-90°	1766.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1766.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1179	1195	1195	1204	1214	110
15°	975	1003	1043	1108	1150	272
25°	710	749	822	933	1016	325
35°	429	474	574	727	844	267
45°	158	205	330	511	654	133
55°	80	84	118	308	458	72
65°	38	40	65	124	235	39
75°	18	25	30	31	39	20
85°	8	13	16	14	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.6	1219.6	1219.6	1219.6	1219.6
2.5°	1209.2	1220.9	1213.1	1213.1	1213.1
5°	1179.4	1195.0	1195.0	1204.0	1214.4
7.5°	1137.9	1156.1	1167.7	1189.8	1205.3
10°	1088.7	1110.7	1132.7	1169.0	1189.8
12.5°	1032.9	1058.9	1090.0	1140.5	1171.6
15°	974.6	1003.1	1043.3	1108.1	1149.6
17.5°	911.1	944.8	992.8	1070.5	1121.1
20°	845.0	878.7	938.3	1026.5	1088.7
22.5°	778.9	815.2	880.0	979.8	1053.7
25°	710.2	749.1	821.7	933.2	1016.1
27.5°	640.2	680.4	760.8	885.2	974.6
30°	570.3	611.7	698.6	833.4	933.2
32.5°	500.3	544.3	636.4	780.2	889.1
35°	429.0	474.4	574.1	727.1	843.7
37.5°	360.3	405.7	511.9	672.6	798.4
40°	289.0	338.3	451.0	618.2	753.0
42.5°	219.0	269.6	390.1	563.8	703.8
45°	158.1	204.8	330.5	510.6	654.5
47.5°	121.8	147.7	269.6	456.2	606.6
50°	106.3	114.1	213.8	405.7	559.9
52.5°	92.0	97.2	160.7	359.0	509.3
55°	80.4	84.2	117.9	308.5	457.5
57.5°	67.4	72.6	93.3	259.2	404.4
60°	57.0	59.6	82.9	213.8	351.2
62.5°	46.7	49.2	73.9	168.5	291.6
65°	37.6	40.2	64.8	124.4	234.6
67.5°	31.1	32.4	54.4	88.1	180.2
70°	25.9	27.2	45.4	60.9	127.0
72.5°	22.0	25.9	36.3	44.1	80.4
75°	18.1	24.6	29.8	31.1	38.9
77.5°	15.6	23.3	24.6	24.6	22.0
80°	13.0	19.4	20.7	19.4	18.1
82.5°	10.4	15.6	16.8	16.8	14.3
85°	7.8	13.0	15.6	14.3	10.4
87.5°	5.2	11.7	13.0	11.7	7.8
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	7.31	8.66	7.68	8.98	9.29	16.92	18.28	17.29	18.59	18.90
	3H	8.17	9.37	8.55	9.70	10.06	17.76	18.96	18.14	19.29	19.66
	4H	8.59	9.71	8.99	10.06	10.44	17.84	18.96	18.24	19.31	19.69
	6H	9.02	10.05	9.44	10.42	10.81	17.82	18.85	18.24	19.22	19.61
	8H	9.20	10.18	9.63	10.57	10.97	17.81	18.78	18.24	19.17	19.58
	12H	9.36	10.30	9.80	10.68	11.11	17.80	18.73	18.23	19.11	19.54
4H	2H	8.27	9.39	8.68	9.74	10.13	16.79	17.91	17.19	18.26	18.64
	3H	9.33	10.24	9.74	10.65	11.05	17.70	18.61	18.11	19.02	19.42
	4H	9.89	10.71	10.32	11.13	11.57	17.80	18.62	18.23	19.04	19.48
	6H	10.49	11.20	10.95	11.64	12.11	17.83	18.53	18.29	18.98	19.45
	8H	10.73	11.39	11.20	11.83	12.31	17.83	18.49	18.30	18.93	19.41
	12H	10.95	11.54	11.44	12.02	12.50	17.84	18.42	18.33	18.91	19.38
8H	4H	10.36	11.02	10.83	11.47	11.94	17.72	18.38	18.19	18.83	19.30
	6H	11.17	11.71	11.67	12.21	12.69	17.78	18.32	18.28	18.81	19.30
	8H	11.55	12.04	12.07	12.55	13.05	17.81	18.30	18.33	18.81	19.30
	12H	11.95	12.38	12.46	12.87	13.44	17.88	18.30	18.39	18.80	19.37
12H	4H	10.41	10.99	10.90	11.48	11.95	17.69	18.28	18.18	18.76	19.23
	6H	11.29	11.78	11.81	12.29	12.79	17.74	18.23	18.26	18.75	19.24
	8H	11.78	12.21	12.30	12.71	13.28	17.82	18.24	18.33	18.74	19.31