

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: P1057856

Luminaire Tested: S122RDRP-S1005D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S1005D940-X4F0-XX-UDD-SVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

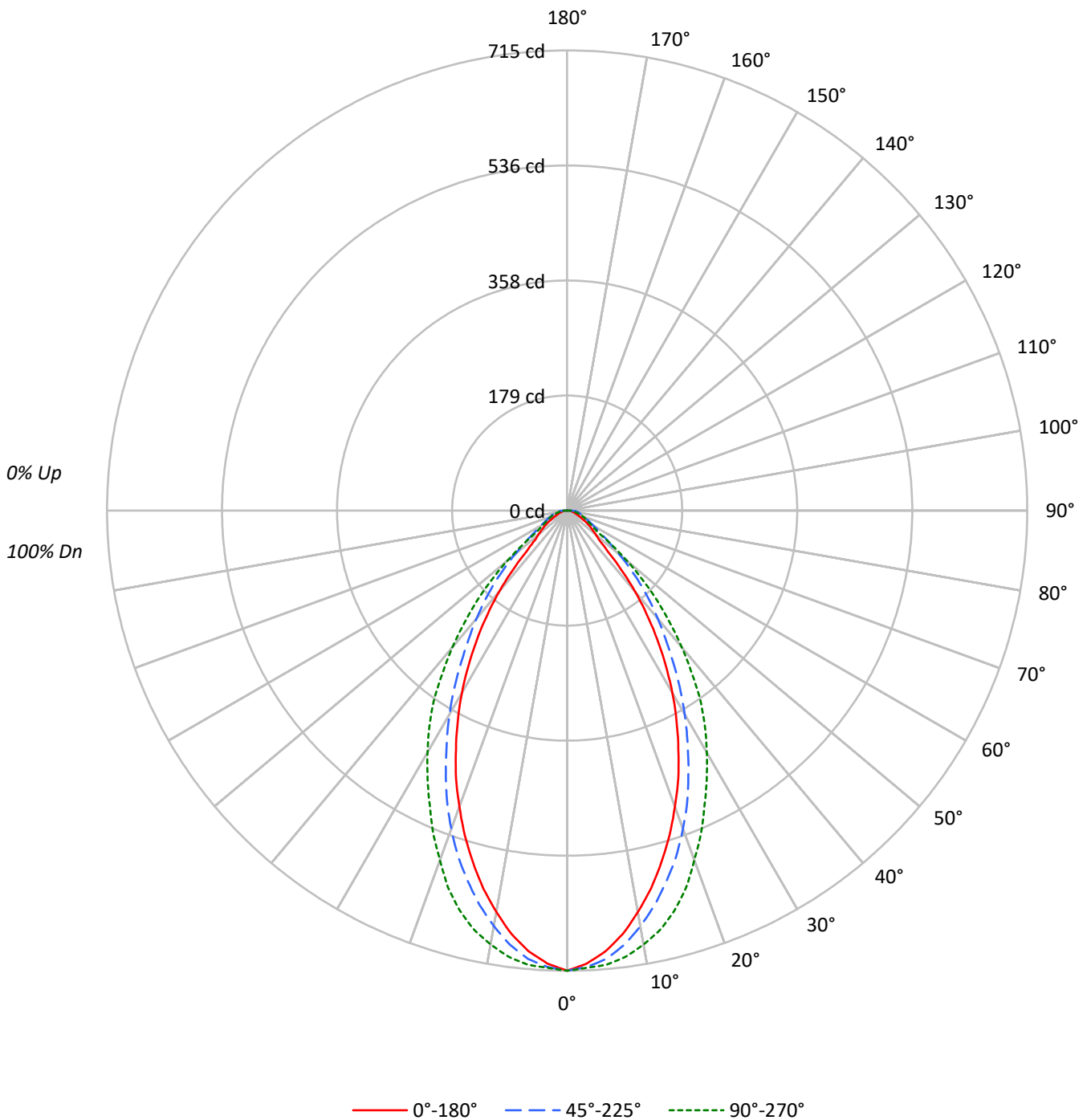
Lumens per Lamp: N/A
Luminaire Lumens: 862.5 lumens
Efficiency: N/A
Efficacy: 20.6 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13192	13192	13192
5°	12729	12949	13120
10°	11864	12284	12827
15°	10811	11389	12297
20°	9610	10335	11346
25°	8325	9079	10286
30°	6970	7786	9247
35°	5496	6447	8141
40°	3941	5275	6672
45°	2307	4165	5164
50°	1665	3029	3485
55°	1399	2165	1824
60°	1118	1753	1557
65°	921	1554	1441
70°	782	1494	1354
75°	756	1597	1319
80°	839	1966	1403
85°	1397	3070	1948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5164 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	7.6
10°-20°	167.8	19.5
20°-30°	206.3	23.9
30°-40°	182.4	21.1
40°-50°	116.4	13.5
50°-60°	56.8	6.6
60°-70°	33.8	3.9
70°-80°	21.6	2.5
80°-90°	11.9	1.4
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°	439.6	51.0
0°-40°	622.0	72.1
0°-60°	795.1	92.2
0°-90°	862.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	687	702	699	702	708	64
15°	566	582	596	623	644	158
25°	409	423	446	474	505	187
35°	244	257	286	326	361	151
45°	88	113	160	179	198	74
55°	44	58	67	63	57	39
65°	21	40	36	33	33	21
75°	11	24	22	20	18	12
85°	7	13	14	13	9	6
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	714.9	714.9	714.9	714.9	714.9
2.5°	704.4	717.6	709.7	709.7	711.0
5°	687.2	701.8	699.1	701.8	708.3
7.5°	663.5	678.0	680.6	691.2	699.1
10°	633.2	647.7	655.6	672.7	684.6
12.5°	601.5	616.0	627.9	650.3	667.5
15°	565.9	581.7	596.2	622.6	643.7
17.5°	529.0	544.8	563.3	589.6	614.7
20°	489.4	503.9	526.3	551.4	577.8
22.5°	451.1	464.3	488.1	511.8	543.5
25°	408.9	423.4	445.9	473.6	505.2
27.5°	368.0	382.5	405.0	436.6	469.6
30°	327.1	340.3	365.4	398.4	434.0
32.5°	284.9	298.1	325.8	361.4	398.4
35°	244.0	257.2	286.2	325.8	361.4
37.5°	203.1	217.6	250.6	287.6	317.9
40°	163.6	180.7	219.0	250.6	277.0
42.5°	124.0	147.7	188.6	215.0	236.1
45°	88.4	113.4	159.6	179.4	197.9
47.5°	67.3	87.1	131.9	146.4	158.3
50°	58.0	71.2	105.5	116.1	121.4
52.5°	50.1	63.3	84.4	88.4	85.7
55°	43.5	58.0	67.3	63.3	56.7
57.5°	36.9	54.1	55.4	47.5	48.8
60°	30.3	48.8	47.5	40.9	42.2
62.5°	25.1	44.8	40.9	36.9	36.9
65°	21.1	39.6	35.6	33.0	33.0
67.5°	17.1	35.6	31.7	29.0	29.0
70°	14.5	31.7	27.7	25.1	25.1
72.5°	13.2	27.7	25.1	22.4	22.4
75°	10.6	23.7	22.4	19.8	18.5
77.5°	9.2	19.8	19.8	18.5	15.8
80°	7.9	17.1	18.5	15.8	13.2
82.5°	7.9	15.8	15.8	14.5	10.6
85°	6.6	13.2	14.5	13.2	9.2
87.5°	4.0	11.9	11.9	10.6	6.6
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	10.99	12.27	11.36	12.58	12.90	10.52	11.80	10.88	12.11	12.42
	3H	12.17	13.30	12.55	13.63	14.00	12.08	13.22	12.46	13.55	13.91
	4H	12.60	13.66	13.00	14.01	14.39	12.76	13.82	13.17	14.18	14.56
	6H	12.94	13.92	13.36	14.29	14.68	13.41	14.39	13.83	14.76	15.15
	8H	13.14	14.06	13.57	14.45	14.86	13.70	14.63	14.13	15.02	15.42
	12H	13.35	14.24	13.79	14.62	15.05	14.02	14.90	14.45	15.29	15.72
4H	2H	11.49	12.55	11.90	12.91	13.29	11.12	12.18	11.52	12.53	12.91
	3H	13.14	14.01	13.55	14.42	14.82	12.92	13.79	13.33	14.20	14.60
	4H	13.90	14.69	14.34	15.11	15.55	13.76	14.54	14.19	14.96	15.41
	6H	14.50	15.18	14.96	15.63	16.09	14.61	15.29	15.08	15.74	16.21
	8H	14.80	15.44	15.27	15.88	16.35	15.01	15.64	15.47	16.09	16.56
	12H	15.11	15.68	15.60	16.16	16.63	15.44	16.00	15.93	16.49	16.96
8H	4H	14.32	14.96	14.79	15.40	15.87	14.22	14.85	14.69	15.30	15.77
	6H	15.27	15.79	15.77	16.28	16.77	15.32	15.85	15.83	16.34	16.82
	8H	15.81	16.28	16.33	16.80	17.29	15.90	16.37	16.43	16.89	17.38
	12H	16.38	16.79	16.89	17.29	17.86	16.57	16.99	17.09	17.48	18.05
12H	4H	14.39	14.95	14.88	15.44	15.91	14.30	14.86	14.79	15.35	15.82
	6H	15.45	15.92	15.97	16.43	16.93	15.51	15.98	16.03	16.49	16.99
	8H	16.14	16.56	16.66	17.05	17.62	16.22	16.63	16.74	17.13	17.70