

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: P1057802

Luminaire Tested: S122RDRP-S1005D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057802
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-S1005D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

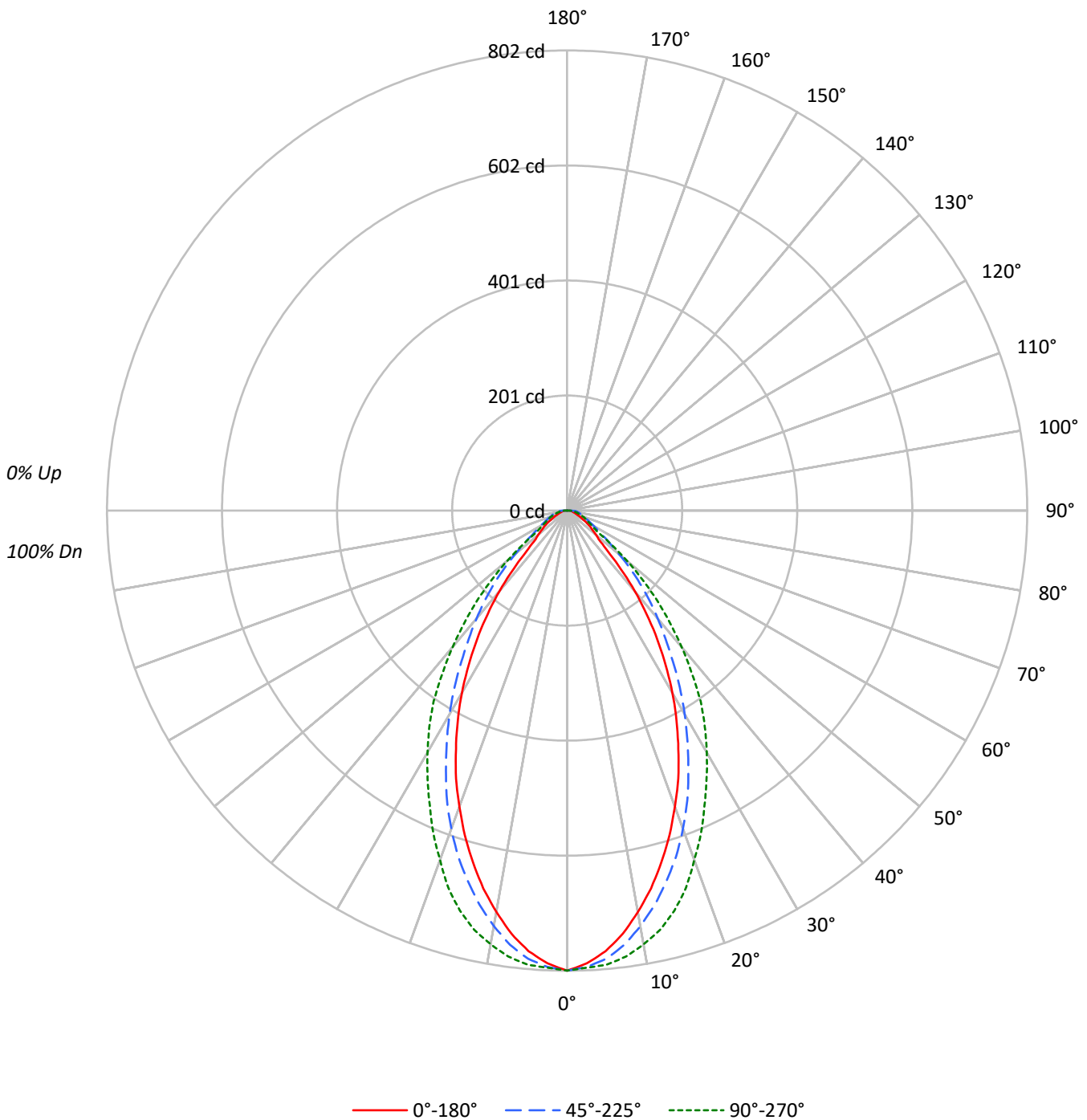
Lumens per Lamp: N/A
Luminaire Lumens: 967.2 lumens
Efficiency: N/A
Efficacy: 23.1 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54					54			
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42					42			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14795	14795	14795
5°	14276	14522	14715
10°	13305	13776	14384
15°	12123	12773	13791
20°	10777	11590	12723
25°	9337	10180	11536
30°	7818	8732	10370
35°	6165	7231	9130
40°	4418	5916	7482
45°	2586	4671	5791
50°	1869	3396	3907
55°	1570	2426	2046
60°	1255	1967	1746
65°	1035	1742	1616
70°	879	1678	1516
75°	841	1790	1476
80°	946	2200	1573
85°	1567	3451	2202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5791 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	7.6
10°-20°	188.2	19.5
20°-30°	231.3	23.9
30°-40°	204.5	21.1
40°-50°	130.5	13.5
50°-60°	63.7	6.6
60°-70°	37.9	3.9
70°-80°	24.2	2.5
80°-90°	13.4	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°	493.0	51.0
0°-40°	697.5	72.1
0°-60°	891.7	92.2
0°-90°	967.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	967.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	771	787	784	787	794	72
15°	635	652	669	698	722	177
25°	459	475	500	531	567	210
35°	274	288	321	365	405	170
45°	99	127	179	201	222	83
55°	49	65	75	71	64	44
65°	24	44	40	37	37	24
75°	12	27	25	22	21	13
85°	7	15	16	15	10	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	801.8	801.8	801.8	801.8	801.8
2.5°	789.9	804.7	795.9	795.9	797.3
5°	770.7	787.0	784.0	787.0	794.4
7.5°	744.1	760.3	763.3	775.1	784.0
10°	710.1	726.3	735.2	754.4	767.7
12.5°	674.6	690.8	704.1	729.3	748.5
15°	634.6	652.4	668.6	698.2	721.9
17.5°	593.2	610.9	631.7	661.2	689.3
20°	548.8	565.1	590.2	618.3	647.9
22.5°	505.9	520.7	547.3	574.0	609.5
25°	458.6	474.8	500.0	531.1	566.6
27.5°	412.7	429.0	454.1	489.6	526.6
30°	366.9	381.7	409.8	446.7	486.7
32.5°	319.5	334.3	365.4	405.3	446.7
35°	273.7	288.5	321.0	365.4	405.3
37.5°	227.8	244.1	281.1	322.5	356.5
40°	183.4	202.7	245.6	281.1	310.6
42.5°	139.1	165.7	211.5	241.1	264.8
45°	99.1	127.2	179.0	201.2	221.9
47.5°	75.4	97.6	147.9	164.2	177.5
50°	65.1	79.9	118.3	130.2	136.1
52.5°	56.2	71.0	94.7	99.1	96.2
55°	48.8	65.1	75.4	71.0	63.6
57.5°	41.4	60.7	62.1	53.3	54.7
60°	34.0	54.7	53.3	45.9	47.3
62.5°	28.1	50.3	45.9	41.4	41.4
65°	23.7	44.4	39.9	37.0	37.0
67.5°	19.2	39.9	35.5	32.5	32.5
70°	16.3	35.5	31.1	28.1	28.1
72.5°	14.8	31.1	28.1	25.1	25.1
75°	11.8	26.6	25.1	22.2	20.7
77.5°	10.4	22.2	22.2	20.7	17.8
80°	8.9	19.2	20.7	17.8	14.8
82.5°	8.9	17.8	17.8	16.3	11.8
85°	7.4	14.8	16.3	14.8	10.4
87.5°	4.4	13.3	13.3	11.8	7.4
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	11.39	12.67	11.76	12.98	13.30	10.92	12.20	11.28	12.51	12.83
	3H	12.57	13.70	12.95	14.03	14.40	12.48	13.61	12.86	13.95	14.31
	4H	12.99	14.06	13.40	14.41	14.79	13.16	14.22	13.56	14.57	14.96
	6H	13.34	14.32	13.76	14.69	15.08	13.81	14.79	14.22	15.16	15.55
	8H	13.54	14.46	13.97	14.86	15.26	14.10	15.02	14.53	15.41	15.82
	12H	13.76	14.64	14.19	15.03	15.46	14.42	15.30	14.85	15.68	16.11
4H	2H	11.89	12.95	12.30	13.31	13.69	11.52	12.58	11.92	12.93	13.31
	3H	13.54	14.41	13.95	14.82	15.22	13.31	14.19	13.73	14.59	15.00
	4H	14.30	15.08	14.73	15.50	15.95	14.15	14.94	14.59	15.36	15.80
	6H	14.90	15.58	15.37	16.03	16.50	15.01	15.69	15.48	16.14	16.61
	8H	15.20	15.84	15.67	16.29	16.76	15.40	16.04	15.87	16.49	16.96
	12H	15.52	16.08	16.00	16.56	17.04	15.84	16.40	16.33	16.89	17.36
8H	4H	14.72	15.35	15.19	15.80	16.27	14.61	15.25	15.08	15.69	16.17
	6H	15.67	16.19	16.17	16.69	17.17	15.72	16.25	16.23	16.74	17.22
	8H	16.22	16.69	16.74	17.20	17.69	16.30	16.77	16.82	17.29	17.78
	12H	16.78	17.20	17.30	17.69	18.26	16.97	17.39	17.49	17.88	18.45
12H	4H	14.79	15.35	15.27	15.83	16.31	14.69	15.26	15.18	15.74	16.21
	6H	15.85	16.32	16.37	16.84	17.33	15.91	16.38	16.43	16.89	17.39
	8H	16.55	16.96	17.06	17.46	18.03	16.62	17.04	17.14	17.53	18.10