

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: P1059071

Luminaire Tested: S123RDRP-S1000D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D940-X4F0-XX-UDD-SVL-S
Description: DEFINE 3 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

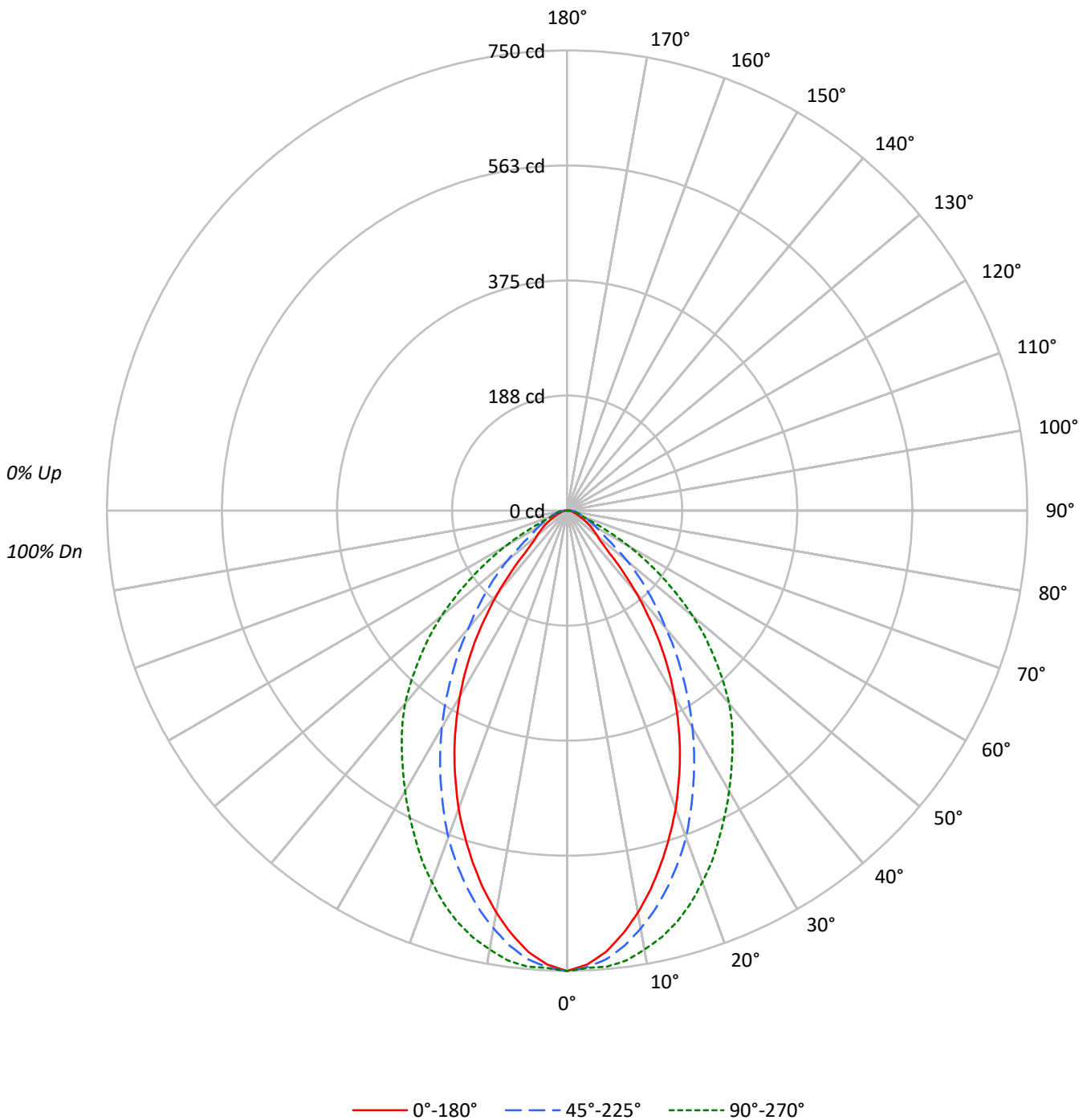
Lumens per Lamp: N/A
Luminaire Lumens: 1005.1 lumens
Efficiency: N/A
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	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	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79													79															
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71													71															
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64													64															
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58													58															
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52													52															
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48													48															
8	70	58	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44													44															
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40													40															
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37													37															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8813	8813	8813
5°	8510	8652	8794
10°	7929	8243	8661
15°	7219	7711	8431
20°	6462	7078	8050
25°	5635	6316	7608
30°	4739	5542	7161
35°	3769	4696	6737
40°	2687	3829	6297
45°	1601	3075	5640
50°	1180	2342	4883
55°	987	1593	3880
60°	798	1313	2727
65°	639	1125	1461
70°	525	978	903
75°	499	944	844
80°	521	1035	818
85°	741	1482	1037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5640 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	6.9
10°-20°	179.1	17.8
20°-30°	228.4	22.7
30°-40°	214.9	21.4
40°-50°	154.4	15.4
50°-60°	88.5	8.8
60°-70°	40.5	4.0
70°-80°	20.3	2.0
80°-90°	9.9	1.0
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°	476.5	47.4
0°-40°	691.4	68.8
0°-60°	934.3	93.0
0°-90°	1005.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1005.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	722	736	734	740	746	67
15°	594	615	634	668	694	166
25°	435	455	488	540	587	199
35°	263	282	328	402	470	163
45°	96	117	185	273	340	81
55°	48	49	78	144	190	43
65°	23	32	40	45	53	23
75°	11	22	21	19	19	12
85°	6	11	11	10	8	6
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.5	750.5	750.5	750.5	750.5
2.5°	740.6	751.6	745.0	745.0	746.1
5°	722.0	736.2	734.0	739.5	746.1
7.5°	695.7	711.0	715.4	728.6	739.5
10°	665.0	682.6	691.3	712.1	726.4
12.5°	631.1	650.8	665.0	691.3	712.1
15°	593.8	614.6	634.3	668.3	693.5
17.5°	555.5	576.3	601.5	640.9	670.5
20°	517.1	537.9	566.4	608.1	644.2
22.5°	475.5	496.3	527.0	574.1	617.9
25°	434.9	454.7	487.5	540.1	587.2
27.5°	392.2	411.9	448.1	505.1	557.7
30°	349.5	369.2	408.7	470.0	528.1
32.5°	306.8	325.4	368.1	436.0	498.5
35°	262.9	281.6	327.6	402.1	470.0
37.5°	218.0	236.6	290.3	371.4	441.5
40°	175.3	196.1	249.8	340.7	410.8
42.5°	133.7	155.6	216.9	307.9	375.8
45°	96.4	117.2	185.2	272.8	339.6
47.5°	73.4	84.4	156.7	237.7	304.6
50°	64.6	65.7	128.2	206.0	267.3
52.5°	55.9	57.0	99.7	175.3	227.9
55°	48.2	49.3	77.8	143.5	189.5
57.5°	40.5	42.7	63.5	113.9	152.3
60°	34.0	38.3	55.9	86.6	116.1
62.5°	27.4	35.1	48.2	63.5	83.3
65°	23.0	31.8	40.5	44.9	52.6
67.5°	18.6	29.6	34.0	31.8	31.8
70°	15.3	26.3	28.5	26.3	26.3
72.5°	13.1	25.2	24.1	21.9	21.9
75°	11.0	21.9	20.8	18.6	18.6
77.5°	9.9	18.6	17.5	16.4	15.3
80°	7.7	15.3	15.3	14.2	12.1
82.5°	6.6	13.1	13.1	12.1	9.9
85°	5.5	11.0	11.0	9.9	7.7
87.5°	4.4	9.9	9.9	8.8	5.5
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	7.54	8.86	7.91	9.17	9.49	14.77	16.08	15.13	16.40	16.71
	3H	8.94	10.11	9.32	10.44	10.81	15.00	16.17	15.38	16.50	16.87
	4H	9.50	10.59	9.91	10.94	11.33	15.11	16.20	15.51	16.55	16.93
	6H	9.97	10.97	10.38	11.34	11.73	15.22	16.22	15.63	16.59	16.98
	8H	10.15	11.10	10.58	11.49	11.90	15.27	16.21	15.70	16.61	17.01
	12H	10.35	11.25	10.78	11.64	12.07	15.32	16.22	15.75	16.61	17.04
4H	2H	8.61	9.70	9.02	10.05	10.44	14.73	15.82	15.13	16.17	16.55
	3H	10.31	11.20	10.72	11.60	12.01	15.10	15.99	15.51	16.39	16.80
	4H	11.14	11.94	11.57	12.36	12.80	15.28	16.08	15.71	16.50	16.94
	6H	11.80	12.49	12.26	12.94	13.40	15.50	16.19	15.96	16.64	17.11
	8H	12.05	12.70	12.52	13.15	13.62	15.60	16.25	16.07	16.70	17.17
	12H	12.31	12.88	12.80	13.37	13.84	15.72	16.29	16.21	16.78	17.25
8H	4H	11.57	12.22	12.04	12.67	13.14	15.32	15.97	15.79	16.42	16.89
	6H	12.52	13.05	13.03	13.55	14.03	15.66	16.19	16.16	16.68	17.16
	8H	12.99	13.47	13.51	13.98	14.47	15.85	16.32	16.37	16.84	17.33
	12H	13.47	13.89	13.98	14.39	14.96	16.08	16.51	16.60	17.00	17.57
12H	4H	11.63	12.20	12.12	12.69	13.16	15.32	15.89	15.80	16.37	16.85
	6H	12.67	13.15	13.19	13.66	14.16	15.68	16.16	16.20	16.67	17.17
	8H	13.26	13.69	13.78	14.18	14.75	15.94	16.37	16.46	16.86	17.43