

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: P1059018

Luminaire Tested: S123RDRP-S1000D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D835-X4F0-XX-UDD-SVL-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

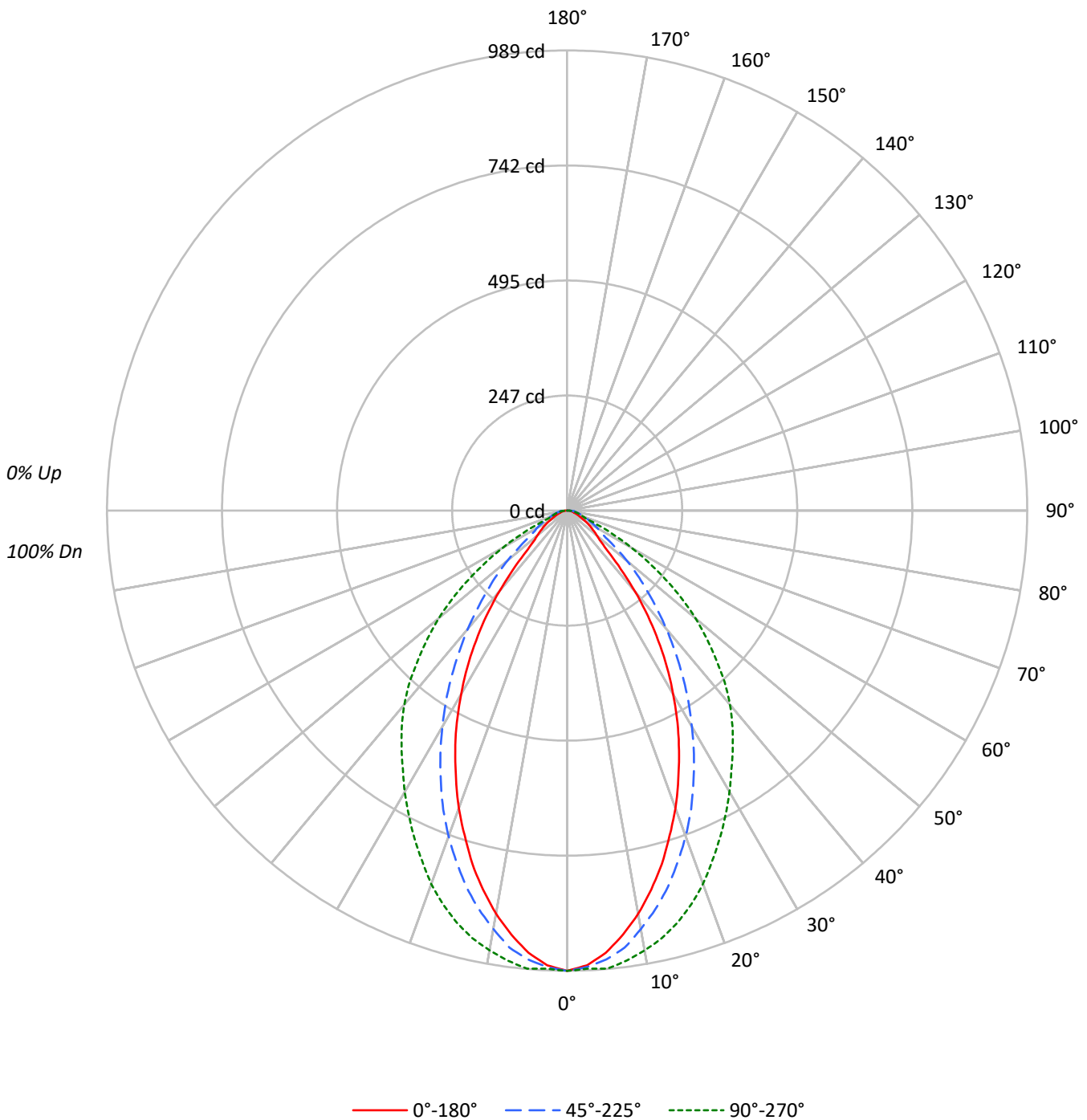
Lumens per Lamp: N/A
Luminaire Lumens: 1328.0 lumens
Efficiency: N/A
Efficacy: 37.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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																												
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																												
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																												
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																												
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64																												
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58																												
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																												
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48																												
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																												
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40																												
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11617	11617	11617
5°	11242	11415	11647
10°	10492	10887	11444
15°	9561	10174	11145
20°	8507	9306	10673
25°	7372	8327	10063
30°	6182	7265	9464
35°	4897	6184	8896
40°	3466	5086	8345
45°	2041	4020	7509
50°	1527	3053	6578
55°	1284	2064	5284
60°	1038	1761	3753
65°	820	1503	1981
70°	718	1308	1222
75°	667	1225	1171
80°	663	1332	1163
85°	822	1981	1495

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7509 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	6.9
10°-20°	236.6	17.8
20°-30°	301.3	22.7
30°-40°	283.4	21.3
40°-50°	204.1	15.4
50°-60°	117.9	8.9
60°-70°	53.9	4.1
70°-80°	26.9	2.0
80°-90°	12.7	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°	629.0	47.4
0°-40°	912.5	68.7
0°-60°	1234.5	93.0
0°-90°	1328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	954	970	968	978	988	89
15°	786	815	837	884	917	219
25°	569	598	643	714	777	260
35°	342	371	431	531	621	212
45°	123	154	242	364	452	104
55°	63	65	101	192	258	56
65°	30	42	54	60	71	30
75°	15	28	27	26	26	16
85°	6	14	15	14	11	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	989.3	989.3	989.3	989.3	989.3
2.5°	978.2	990.5	981.9	983.1	985.6
5°	953.7	969.6	968.4	978.2	988.1
7.5°	919.2	937.7	947.5	962.3	975.8
10°	879.9	900.8	913.1	940.1	959.8
12.5°	834.4	861.5	877.5	913.1	941.4
15°	786.5	814.8	836.9	883.6	916.8
17.5°	732.4	763.2	791.4	846.7	887.3
20°	680.8	710.3	744.7	805.0	854.1
22.5°	624.3	656.3	695.6	759.5	814.8
25°	569.0	598.5	642.7	714.0	776.7
27.5°	513.7	543.2	589.9	668.5	737.4
30°	455.9	486.7	535.8	623.1	698.0
32.5°	399.4	428.9	484.2	578.8	657.5
35°	341.6	371.1	431.4	530.9	620.6
37.5°	285.1	315.8	379.7	491.6	583.7
40°	226.1	259.3	331.8	451.0	544.4
42.5°	170.8	206.5	283.9	409.2	501.4
45°	122.9	153.6	242.1	363.8	452.2
47.5°	95.9	111.8	204.0	317.1	406.8
50°	83.6	86.0	167.1	274.1	360.1
52.5°	72.5	75.0	131.5	233.5	310.9
55°	62.7	65.1	100.8	191.7	258.1
57.5°	52.8	56.5	83.6	152.4	207.7
60°	44.2	49.2	75.0	116.7	159.8
62.5°	35.6	44.2	63.9	86.0	114.3
65°	29.5	41.8	54.1	60.2	71.3
67.5°	24.6	38.1	45.5	43.0	41.8
70°	20.9	34.4	38.1	34.4	35.6
72.5°	17.2	32.0	32.0	29.5	29.5
75°	14.7	28.3	27.0	25.8	25.8
77.5°	12.3	24.6	23.3	22.1	20.9
80°	9.8	19.7	19.7	18.4	17.2
82.5°	8.6	16.0	16.0	16.0	13.5
85°	6.1	13.5	14.7	13.5	11.1
87.5°	4.9	12.3	12.3	11.1	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	8.49	9.81	8.85	10.12	10.43	15.85	17.17	16.22	17.49	17.80
	3H	9.88	11.05	10.26	11.38	11.74	16.08	17.25	16.46	17.58	17.95
	4H	10.43	11.52	10.83	11.87	12.26	16.20	17.29	16.60	17.64	18.02
	6H	10.87	11.87	11.28	12.24	12.63	16.31	17.32	16.73	17.69	18.08
	8H	11.04	11.99	11.47	12.38	12.79	16.37	17.31	16.80	17.71	18.11
	12H	11.20	12.10	11.63	12.49	12.92	16.42	17.33	16.86	17.72	18.15
4H	2H	9.59	10.68	9.99	11.03	11.41	15.81	16.90	16.22	17.25	17.64
	3H	11.25	12.15	11.67	12.55	12.95	16.17	17.07	16.59	17.47	17.87
	4H	12.06	12.86	12.50	13.28	13.73	16.37	17.17	16.80	17.59	18.03
	6H	12.70	13.39	13.16	13.84	14.30	16.60	17.29	17.06	17.73	18.20
	8H	12.94	13.58	13.40	14.03	14.50	16.70	17.35	17.17	17.79	18.26
	12H	13.15	13.72	13.63	14.20	14.68	16.83	17.40	17.32	17.88	18.36
8H	4H	12.51	13.15	12.98	13.60	14.07	16.41	17.05	16.88	17.50	17.97
	6H	13.42	13.95	13.92	14.44	14.93	16.73	17.26	17.24	17.76	18.24
	8H	13.84	14.32	14.36	14.83	15.32	16.92	17.40	17.45	17.92	18.41
	12H	14.25	14.68	14.77	15.17	15.74	17.17	17.60	17.69	18.09	18.66
12H	4H	12.56	13.14	13.05	13.62	14.09	16.40	16.97	16.88	17.45	17.93
	6H	13.55	14.03	14.07	14.55	15.04	16.75	17.23	17.27	17.74	18.23
	8H	14.09	14.51	14.61	15.01	15.58	17.01	17.43	17.52	17.92	18.50