

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: P1059055

Luminaire Tested: S123RDRP-S1000D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-28)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 3 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

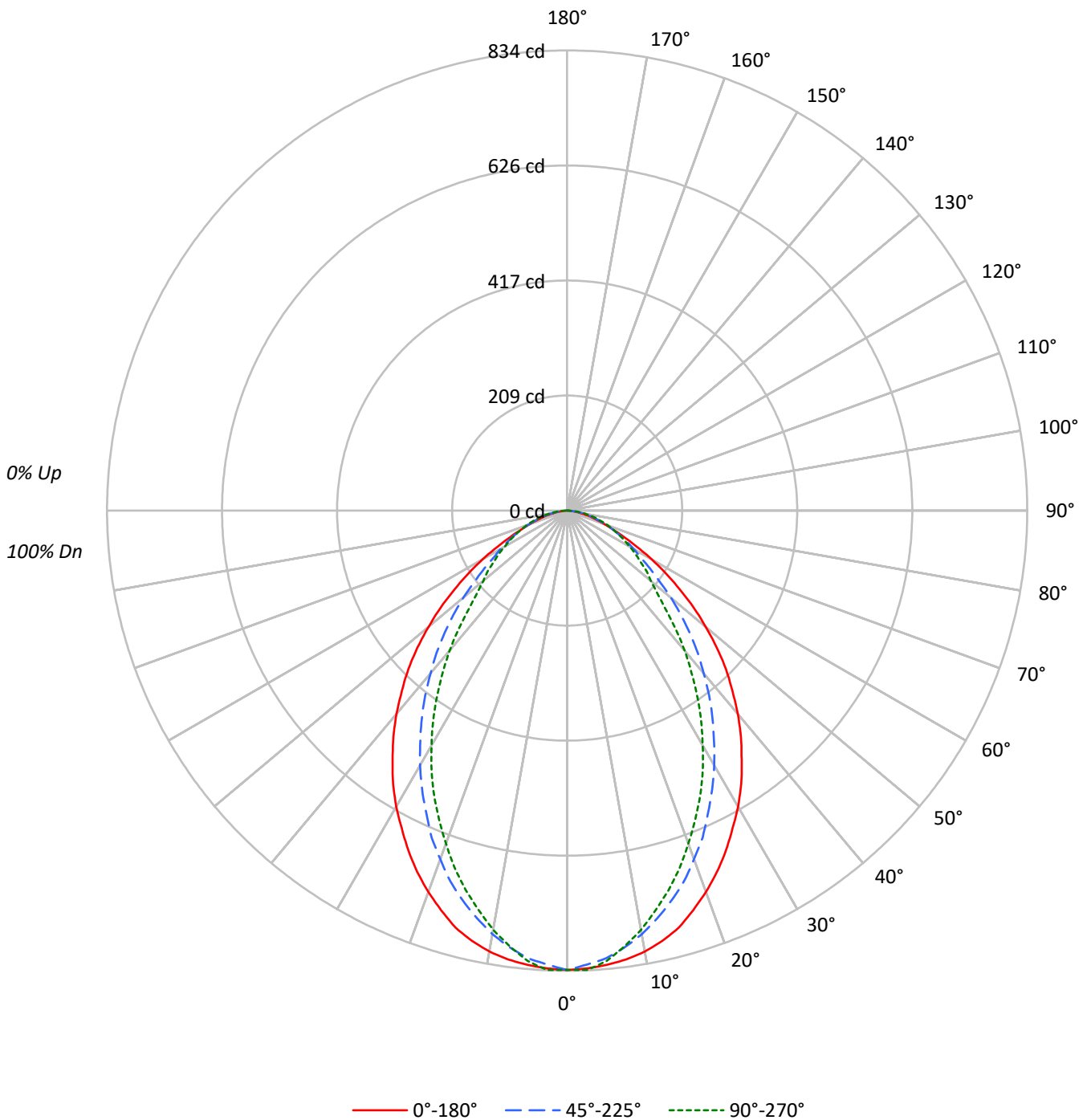
Lumens per Lamp: N/A
Luminaire Lumens: 1456.1 lumens
Efficiency: N/A
Efficacy: 41.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.95 / 1.09
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): 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	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88																												
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																												
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66																												
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58																												
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52																												
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47																												
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42																												
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38																												
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35																												
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9776	9776	9776
5°	9742	9601	9660
10°	9676	9294	9199
15°	9513	8893	8648
20°	9191	8402	8027
25°	8815	7831	7390
30°	8398	7231	6662
35°	7903	6584	5896
40°	7378	5905	5077
45°	6764	5218	4172
50°	5996	4479	3619
55°	5102	3748	3319
60°	4159	3267	3079
65°	3170	2892	2865
70°	2472	2575	2678
75°	1996	2314	2495
80°	1488	1893	2299
85°	808	1213	2021

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6764 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	5.3
10°-20°	207.9	14.3
20°-30°	282.7	19.4
30°-40°	293.0	20.1
40°-50°	247.1	17.0
50°-60°	175.4	12.0
60°-70°	107.2	7.4
70°-80°	53.3	3.7
80°-90°	12.1	0.8
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°	567.9	39.0
0°-40°	860.9	59.1
0°-60°	1283.4	88.1
0°-90°	1456.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1456.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	826	826	814	820	820	78
15°	782	768	732	718	711	220
25°	680	650	604	582	570	313
35°	551	509	459	427	411	345
45°	407	364	314	271	251	313
55°	249	223	183	167	162	224
65°	114	110	104	104	103	116
75°	44	47	51	53	55	47
85°	6	7	9	13	15	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.5	832.5	832.5	832.5	832.5
2.5°	830.5	831.5	823.5	832.5	833.5
5°	826.5	826.5	814.5	819.5	819.5
7.5°	820.5	818.5	798.5	798.5	796.5
10°	811.5	805.5	779.5	774.5	771.5
12.5°	798.5	788.5	756.5	747.5	741.5
15°	782.5	767.5	731.5	718.5	711.4
17.5°	759.5	744.5	704.4	686.4	678.4
20°	735.5	713.4	672.4	654.4	642.4
22.5°	709.4	681.4	641.4	619.4	606.4
25°	680.4	650.4	604.4	582.4	570.4
27.5°	649.4	616.4	569.4	544.3	532.3
30°	619.4	581.4	533.3	505.3	491.3
32.5°	587.4	544.3	495.3	466.3	452.3
35°	551.3	509.3	459.3	427.3	411.3
37.5°	517.3	474.3	422.3	388.2	370.2
40°	481.3	438.3	385.2	350.2	331.2
42.5°	443.3	402.3	350.2	309.2	291.2
45°	407.3	364.2	314.2	271.2	251.2
47.5°	368.2	328.2	279.2	235.1	221.1
50°	328.2	291.2	245.2	205.1	198.1
52.5°	289.2	258.2	211.1	185.1	182.1
55°	249.2	223.1	183.1	167.1	162.1
57.5°	212.1	193.1	157.1	149.1	147.1
60°	177.1	161.1	139.1	134.1	131.1
62.5°	143.1	134.1	121.1	119.1	117.1
65°	114.1	110.1	104.1	104.1	103.1
67.5°	90.1	90.1	89.1	91.1	90.1
70°	72.0	73.0	75.0	77.0	78.0
72.5°	57.0	60.0	62.0	65.0	66.0
75°	44.0	47.0	51.0	53.0	55.0
77.5°	32.0	35.0	39.0	42.0	44.0
80°	22.0	24.0	28.0	32.0	34.0
82.5°	14.0	15.0	18.0	22.0	24.0
85°	6.0	7.0	9.0	13.0	15.0
87.5°	0.0	0.0	1.0	4.0	7.0
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	16.73	18.18	17.09	18.49	18.81	14.83	16.28	15.19	16.59	16.91
	3H	17.63	18.92	18.01	19.25	19.61	16.40	17.70	16.78	18.02	18.39
	4H	17.91	19.12	18.31	19.47	19.85	17.00	18.21	17.40	18.56	18.94
	6H	18.06	19.18	18.47	19.54	19.94	17.45	18.56	17.86	18.93	19.32
	8H	18.08	19.14	18.51	19.53	19.94	17.59	18.66	18.02	19.05	19.45
	12H	18.08	19.09	18.51	19.47	19.90	17.69	18.71	18.12	19.09	19.52
4H	2H	16.97	18.19	17.37	18.54	18.92	15.37	16.58	15.77	16.93	17.31
	3H	18.09	19.09	18.50	19.49	19.89	17.14	18.14	17.55	18.54	18.95
	4H	18.48	19.38	18.91	19.79	20.23	17.85	18.75	18.29	19.17	19.61
	6H	18.72	19.50	19.18	19.94	20.40	18.42	19.20	18.88	19.65	20.11
	8H	18.76	19.49	19.23	19.93	20.40	18.62	19.34	19.08	19.79	20.26
	12H	18.77	19.42	19.25	19.90	20.37	18.75	19.40	19.24	19.88	20.35
8H	4H	18.63	19.36	19.10	19.81	20.28	18.06	18.79	18.53	19.23	19.70
	6H	18.95	19.54	19.45	20.04	20.52	18.74	19.34	19.24	19.83	20.31
	8H	19.02	19.56	19.54	20.07	20.56	18.99	19.53	19.51	20.04	20.53
	12H	19.06	19.53	19.57	20.02	20.59	19.20	19.68	19.71	20.17	20.74
12H	4H	18.64	19.29	19.12	19.77	20.24	18.06	18.71	18.54	19.19	19.66
	6H	18.96	19.50	19.48	20.01	20.50	18.75	19.28	19.26	19.80	20.29
	8H	19.08	19.55	19.59	20.04	20.61	19.05	19.52	19.56	20.02	20.58