

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: P1057840

Luminaire Tested: S122RDRP-S1005D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-19)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S1005D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 2 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

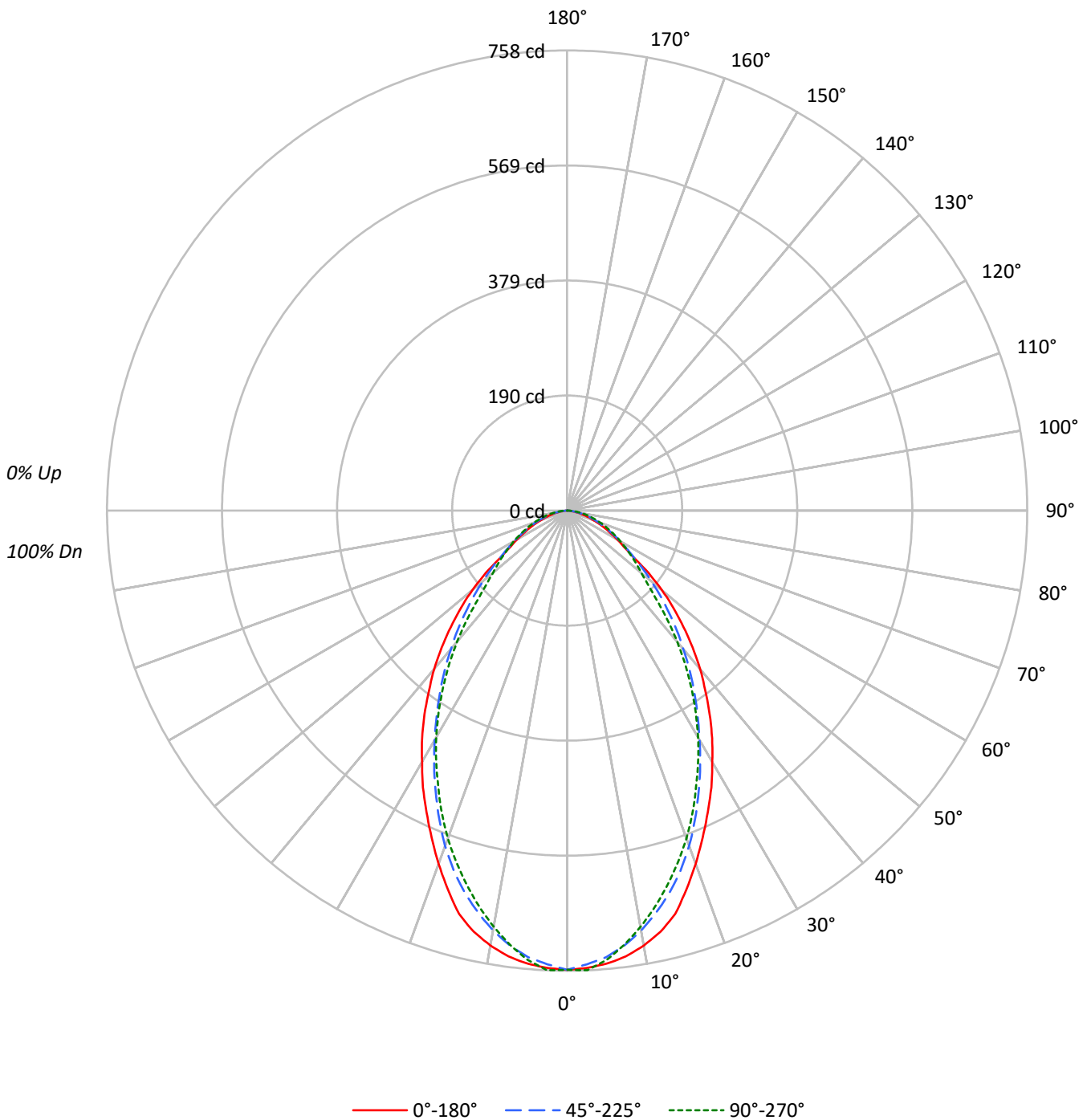
Lumens per Lamp: N/A
Luminaire Lumens: 1148.8 lumens
Efficiency: N/A
Efficacy: 27.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77					77			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68					68			
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61					61			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54					54			
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49					49			
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44					44			
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41					41			
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13959	13959	13959
5°	13877	13677	13766
10°	13631	13157	13045
15°	13139	12450	12196
20°	12157	11542	11283
25°	11159	10422	10227
30°	10189	9290	9188
35°	9225	8222	8031
40°	8212	7166	6790
45°	7072	6161	5438
50°	5845	5187	4564
55°	4224	4301	4108
60°	3513	3690	3735
65°	3000	3209	3419
70°	2471	2859	3118
75°	2060	2403	2830
80°	1541	1923	2561
85°	508	1016	2287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	6.1
10°-20°	184.1	16.0
20°-30°	238.3	20.7
30°-40°	233.7	20.3
40°-50°	184.0	16.0
50°-60°	120.6	10.5
60°-70°	73.4	6.4
70°-80°	36.7	3.2
80°-90°	7.9	0.7
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°	492.4	42.9
0°-40°	726.1	63.2
0°-60°	1030.8	89.7
0°-90°	1148.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	749	749	738	743	743	71
15°	688	678	652	643	638	192
25°	548	530	512	510	502	252
35°	410	387	365	364	356	255
45°	271	254	236	219	208	209
55°	131	138	134	129	128	125
65°	69	70	74	77	78	68
75°	29	30	34	38	40	31
85°	2	4	5	8	11	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.5	756.5	756.5	756.5	756.5
2.5°	754.0	755.2	748.0	755.2	757.7
5°	749.2	749.2	738.4	743.2	743.2
7.5°	740.8	739.6	722.7	722.7	721.5
10°	727.5	722.7	702.2	698.6	696.2
12.5°	710.7	702.2	678.2	672.1	668.5
15°	687.8	678.2	651.7	643.2	638.4
17.5°	654.1	644.4	621.5	611.9	607.1
20°	619.1	604.7	587.8	579.4	574.6
22.5°	583.0	566.1	550.5	544.5	539.6
25°	548.1	530.0	511.9	509.5	502.3
27.5°	514.3	492.7	474.6	473.4	467.4
30°	478.2	455.3	436.0	437.2	431.2
32.5°	444.5	422.8	399.9	401.1	393.9
35°	409.5	386.7	365.0	363.8	356.5
37.5°	373.4	351.7	331.2	326.4	319.2
40°	340.9	319.2	297.5	289.1	281.9
42.5°	306.0	286.7	267.4	254.2	244.5
45°	271.0	254.2	236.1	219.2	208.4
47.5°	237.3	224.0	208.4	187.9	180.7
50°	203.6	193.9	180.7	162.6	159.0
52.5°	168.6	165.0	156.6	144.5	143.3
55°	131.3	138.5	133.7	128.9	127.7
57.5°	110.8	112.0	115.6	114.4	114.4
60°	95.2	95.2	100.0	101.2	101.2
62.5°	80.7	81.9	86.7	89.1	89.1
65°	68.7	69.9	73.5	77.1	78.3
67.5°	56.6	59.0	62.6	66.2	67.5
70°	45.8	48.2	53.0	56.6	57.8
72.5°	37.3	38.5	43.4	47.0	48.2
75°	28.9	30.1	33.7	38.5	39.7
77.5°	20.5	22.9	26.5	30.1	32.5
80°	14.5	15.7	18.1	22.9	24.1
82.5°	8.4	9.6	12.0	15.7	16.9
85°	2.4	3.6	4.8	8.4	10.8
87.5°	0.0	0.0	0.0	2.4	4.8
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	15.28	16.68	15.65	16.99	17.30	15.46	16.86	15.82	17.17	17.48
	3H	16.41	17.66	16.79	17.99	18.35	16.92	18.16	17.30	18.49	18.86
	4H	16.76	17.93	17.17	18.28	18.66	17.46	18.62	17.86	18.97	19.36
	6H	16.95	18.02	17.36	18.39	18.78	17.87	18.94	18.29	19.31	19.71
	8H	16.98	17.99	17.40	18.38	18.79	18.00	19.02	18.43	19.41	19.81
	12H	16.96	17.93	17.39	18.32	18.75	18.08	19.06	18.52	19.44	19.87
4H	2H	15.74	16.90	16.14	17.25	17.63	15.89	17.05	16.29	17.40	17.78
	3H	17.08	18.04	17.49	18.44	18.84	17.56	18.52	17.97	18.92	19.32
	4H	17.52	18.38	17.96	18.80	19.24	18.22	19.08	18.66	19.50	19.94
	6H	17.79	18.54	18.26	18.98	19.45	18.76	19.50	19.22	19.95	20.41
	8H	17.84	18.53	18.31	18.98	19.45	18.93	19.62	19.39	20.07	20.54
	12H	17.83	18.45	18.32	18.93	19.40	19.05	19.66	19.53	20.14	20.62
8H	4H	17.74	18.43	18.20	18.88	19.35	18.37	19.07	18.84	19.51	19.98
	6H	18.08	18.65	18.58	19.15	19.63	19.00	19.57	19.50	20.07	20.55
	8H	18.16	18.67	18.68	19.18	19.68	19.24	19.75	19.76	20.26	20.75
	12H	18.18	18.63	18.69	19.12	19.69	19.42	19.87	19.94	20.37	20.94
12H	4H	17.75	18.36	18.23	18.84	19.32	18.36	18.97	18.84	19.45	19.93
	6H	18.11	18.62	18.63	19.13	19.62	19.00	19.51	19.52	20.02	20.51
	8H	18.22	18.67	18.74	19.17	19.74	19.27	19.72	19.79	20.22	20.79