

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: P1058244

Luminaire Tested: S122RDRP-H1005D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-H1005D930-X4F0-XX-UDD-SVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

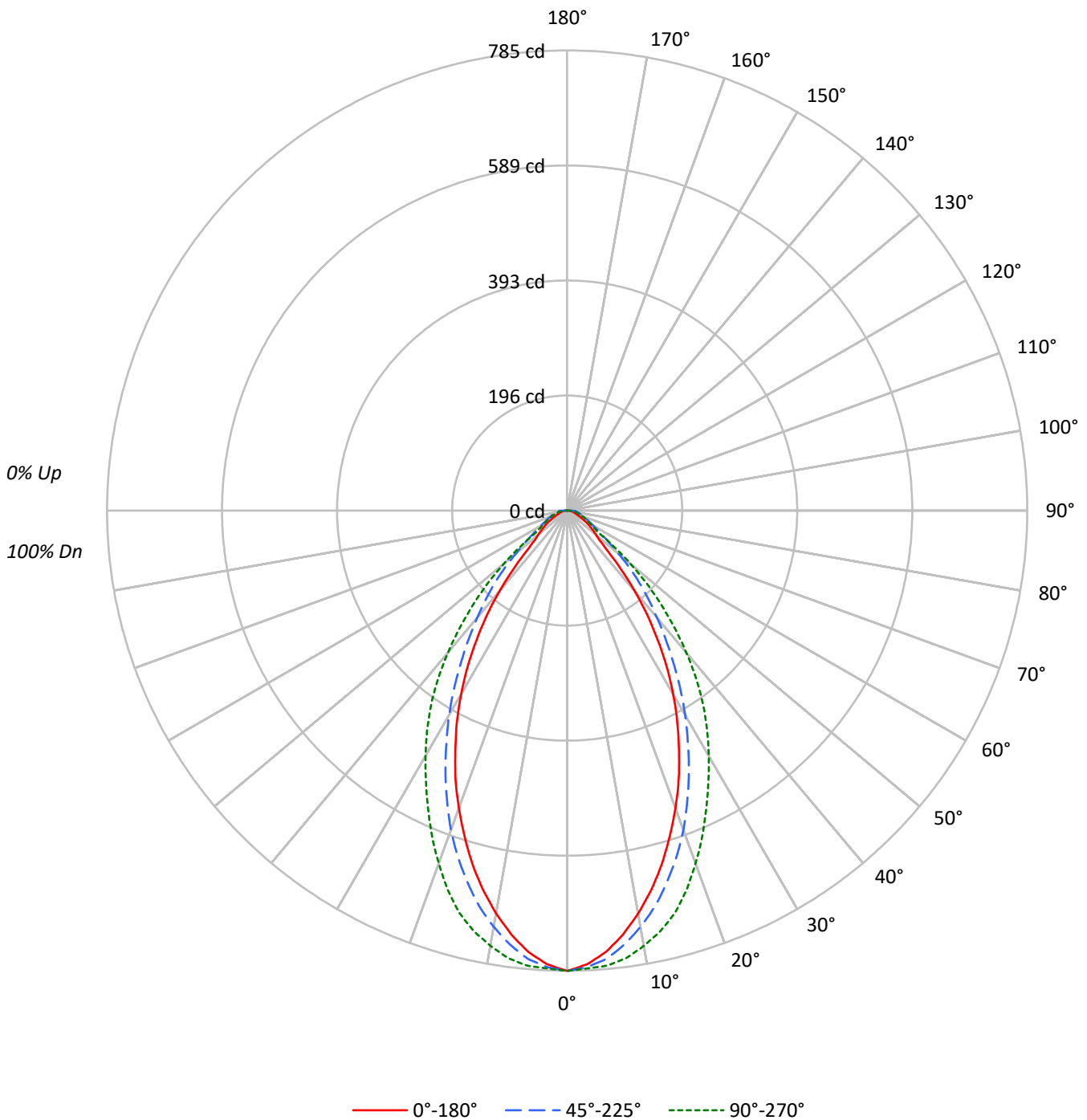
Lumens per Lamp: N/A
Luminaire Lumens: 952.5 lumens
Efficiency: N/A
Efficacy: 26.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	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	102	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	83	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	67	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	45	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°	14491	14491	14491
5°	14005	14222	14437
10°	13075	13511	14124
15°	11924	12549	13575
20°	10608	11387	12579
25°	9195	10001	11426
30°	7707	8578	10293
35°	6071	7096	9121
40°	4329	5733	7617
45°	2557	4538	5908
50°	1843	3281	4019
55°	1538	2365	2027
60°	1247	1893	1723
65°	1017	1681	1581
70°	879	1635	1511
75°	834	1661	1497
80°	871	1987	1615
85°	1228	3218	1969

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5908 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	7.6
10°-20°	185.0	19.4
20°-30°	228.3	24.0
30°-40°	203.0	21.3
40°-50°	129.6	13.6
50°-60°	62.2	6.5
60°-70°	36.5	3.8
70°-80°	23.3	2.4
80°-90°	12.4	1.3
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°	485.3	51.0
0°-40°	688.4	72.3
0°-60°	880.2	92.4
0°-90°	952.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	952.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	756	770	768	772	779	70
15°	624	639	657	687	711	174
25°	452	469	491	526	561	207
35°	270	290	315	363	405	167
45°	98	127	174	202	226	82
55°	48	62	74	71	63	43
65°	23	42	38	35	36	23
75°	12	26	23	22	21	13
85°	6	14	15	13	9	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	785.3	785.3	785.3	785.3	785.3
2.5°	774.8	787.6	779.4	779.4	781.8
5°	756.1	770.1	767.8	772.4	779.4
7.5°	729.3	744.4	746.8	759.6	770.1
10°	697.8	714.1	721.1	739.8	753.8
12.5°	662.8	679.1	691.9	715.3	735.1
15°	624.2	639.4	656.9	687.3	710.6
17.5°	582.2	602.1	619.6	651.1	677.9
20°	540.2	558.9	579.9	610.2	640.6
22.5°	497.1	514.6	535.6	567.1	602.1
25°	451.6	469.1	491.2	526.2	561.2
27.5°	407.2	424.7	445.7	484.2	521.6
30°	361.7	379.2	402.6	442.2	483.1
32.5°	316.2	334.9	358.2	401.4	444.6
35°	269.5	290.5	315.0	362.9	404.9
37.5°	224.0	245.0	275.4	322.0	361.7
40°	179.7	204.2	238.0	280.0	316.2
42.5°	136.5	163.4	205.4	239.2	270.7
45°	98.0	127.2	173.9	201.9	226.4
47.5°	74.7	95.7	143.5	165.7	183.2
50°	64.2	77.0	114.3	130.7	140.0
52.5°	56.0	67.7	91.0	99.2	99.2
55°	47.8	61.8	73.5	71.2	63.0
57.5°	40.8	56.0	60.7	51.3	53.7
60°	33.8	51.3	51.3	45.5	46.7
62.5°	28.0	47.8	44.3	39.7	40.8
65°	23.3	42.0	38.5	35.0	36.2
67.5°	18.7	37.3	33.8	31.5	31.5
70°	16.3	33.8	30.3	28.0	28.0
72.5°	14.0	29.2	26.8	24.5	24.5
75°	11.7	25.7	23.3	22.2	21.0
77.5°	10.5	22.2	21.0	18.7	17.5
80°	8.2	18.7	18.7	17.5	15.2
82.5°	7.0	16.3	16.3	15.2	12.8
85°	5.8	14.0	15.2	12.8	9.3
87.5°	4.7	12.8	12.8	10.5	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	10.96	12.23	11.32	12.55	12.86	10.75	12.02	11.11	12.34	12.65
	3H	12.19	13.32	12.57	13.65	14.02	12.34	13.48	12.72	13.81	14.17
	4H	12.64	13.70	13.05	14.05	14.44	13.06	14.12	13.46	14.47	14.85
	6H	13.02	14.00	13.44	14.37	14.76	13.71	14.68	14.13	15.06	15.45
	8H	13.18	14.10	13.61	14.49	14.90	14.04	14.96	14.47	15.35	15.76
	12H	13.34	14.22	13.77	14.60	15.03	14.34	15.22	14.77	15.60	16.03
4H	2H	11.51	12.57	11.91	12.92	13.30	11.34	12.40	11.74	12.75	13.13
	3H	13.20	14.07	13.61	14.48	14.88	13.18	14.05	13.59	14.45	14.86
	4H	14.00	14.78	14.43	15.20	15.64	14.05	14.83	14.49	15.25	15.70
	6H	14.64	15.32	15.11	15.77	16.24	14.90	15.58	15.36	16.02	16.49
	8H	14.89	15.53	15.36	15.97	16.45	15.32	15.96	15.79	16.40	16.88
	12H	15.14	15.70	15.63	16.18	16.66	15.72	16.28	16.21	16.77	17.24
8H	4H	14.42	15.05	14.89	15.50	15.97	14.47	15.10	14.94	15.55	16.02
	6H	15.40	15.92	15.90	16.41	16.89	15.56	16.08	16.06	16.57	17.06
	8H	15.89	16.35	16.41	16.87	17.36	16.15	16.62	16.67	17.13	17.62
	12H	16.39	16.80	16.90	17.30	17.87	16.75	17.16	17.26	17.66	18.23
12H	4H	14.48	15.04	14.97	15.53	16.00	14.55	15.11	15.03	15.59	16.06
	6H	15.56	16.03	16.09	16.55	17.04	15.72	16.19	16.24	16.70	17.20
	8H	16.20	16.61	16.72	17.11	17.68	16.43	16.85	16.95	17.34	17.91