

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: P1058085

Luminaire Tested: S122RDRP-S675D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-55)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S675D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

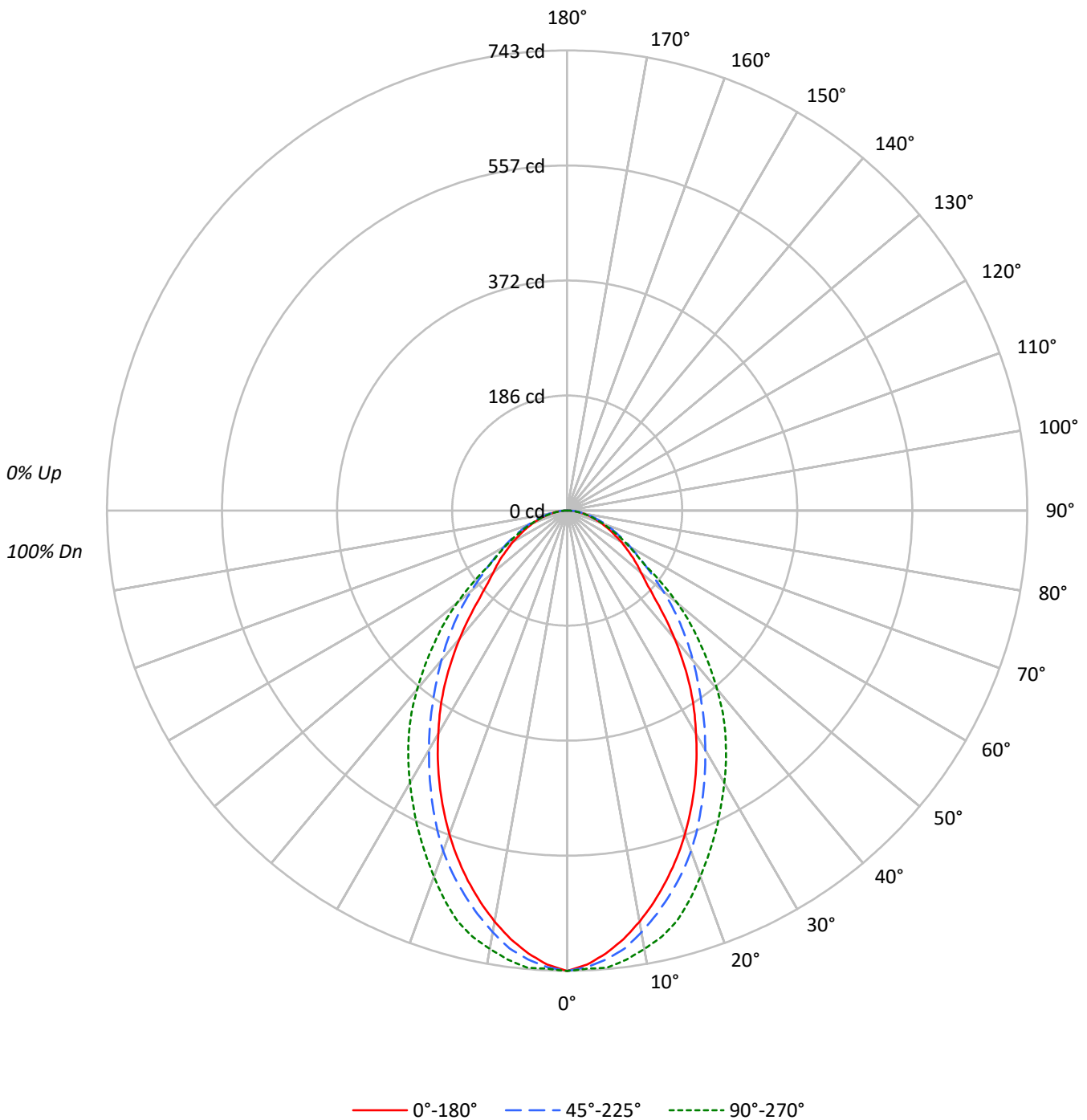
Lumens per Lamp: N/A
Luminaire Lumens: 1211.9 lumens
Efficiency: N/A
Efficacy: 47.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																												
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	74	70	76	72	68	67																												
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59																												
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52																												
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																												
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																												
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																												
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36																												
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13718	13718	13718
5°	13296	13474	13726
10°	12625	12955	13464
15°	11819	12261	13101
20°	10924	11489	12353
25°	9928	10512	11587
30°	8872	9503	10815
35°	7778	8517	10047
40°	6509	7605	9069
45°	5214	6738	7925
50°	4475	5805	6654
55°	4089	4938	4912
60°	3716	4366	4277
65°	3384	3908	3733
70°	3102	3577	3318
75°	2909	3308	2909
80°	2720	3060	2550
85°	2710	3218	2202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7925 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	5.7
10°-20°	181.7	15.0
20°-30°	239.6	19.8
30°-40°	241.3	19.9
40°-50°	196.4	16.2
50°-60°	133.9	11.0
60°-70°	86.9	7.2
70°-80°	47.9	4.0
80°-90°	15.6	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°	489.9	40.4
0°-40°	731.2	60.3
0°-60°	1061.5	87.6
0°-90°	1211.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1211.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	718	731	727	734	741	67
15°	619	635	642	668	686	173
25°	488	504	516	540	569	224
35°	345	363	378	411	446	214
45°	200	225	258	281	304	157
55°	127	140	154	154	153	114
65°	78	92	90	85	86	77
75°	41	50	46	42	41	43
85°	13	17	15	12	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.4	743.4	743.4	743.4	743.4
2.5°	733.8	745.7	737.8	738.6	740.2
5°	717.8	731.4	727.4	733.8	741.0
7.5°	697.8	711.4	713.0	722.6	731.4
10°	673.8	689.0	691.4	705.8	718.6
12.5°	647.4	664.2	667.4	688.2	705.0
15°	618.7	634.6	641.8	668.2	685.8
17.5°	588.3	603.5	614.7	638.6	658.6
20°	556.3	570.7	585.1	606.7	629.1
22.5°	521.9	537.9	551.5	573.1	598.7
25°	487.6	503.6	516.3	539.5	569.1
27.5°	452.4	468.4	481.2	506.0	537.9
30°	416.4	433.2	446.0	474.0	507.6
32.5°	381.3	398.1	412.4	442.0	477.2
35°	345.3	362.9	378.1	410.8	446.0
37.5°	306.9	326.9	346.1	378.9	413.2
40°	270.2	292.5	315.7	346.1	376.5
42.5°	233.4	258.2	286.9	312.5	340.5
45°	199.8	224.6	258.2	280.6	303.7
47.5°	173.4	194.2	230.2	248.6	269.4
50°	155.9	170.3	202.2	216.6	231.8
52.5°	141.5	153.5	175.8	185.4	193.4
55°	127.1	139.9	153.5	154.3	152.7
57.5°	112.7	127.1	134.3	128.7	131.9
60°	100.7	115.1	118.3	112.7	115.9
62.5°	87.9	103.9	103.9	98.3	99.9
65°	77.5	91.9	89.5	84.7	85.5
67.5°	67.1	81.5	77.5	72.7	72.7
70°	57.5	71.1	66.3	61.5	61.5
72.5°	48.8	59.9	56.8	51.2	50.4
75°	40.8	50.4	46.4	41.6	40.8
77.5°	32.8	40.8	37.6	33.6	32.0
80°	25.6	32.8	28.8	25.6	24.0
82.5°	19.2	24.8	21.6	18.4	16.8
85°	12.8	16.8	15.2	12.0	10.4
87.5°	6.4	11.2	9.6	8.0	6.4
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	15.82	17.26	16.18	17.57	17.88	16.06	17.50	16.43	17.82	18.13
	3H	17.34	18.63	17.72	18.96	19.32	17.42	18.71	17.80	19.04	19.40
	4H	17.91	19.11	18.31	19.46	19.84	17.90	19.11	18.30	19.46	19.84
	6H	18.33	19.44	18.74	19.81	20.20	18.25	19.36	18.67	19.73	20.12
	8H	18.48	19.54	18.91	19.93	20.33	18.36	19.42	18.79	19.81	20.21
	12H	18.60	19.61	19.03	19.99	20.42	18.43	19.44	18.86	19.82	20.25
4H	2H	16.39	17.59	16.79	17.94	18.32	16.59	17.79	16.99	18.14	18.52
	3H	18.19	19.19	18.60	19.59	19.99	18.16	19.16	18.57	19.56	19.96
	4H	18.93	19.83	19.37	20.25	20.69	18.76	19.65	19.19	20.07	20.51
	6H	19.52	20.30	19.98	20.75	21.21	19.23	20.01	19.69	20.45	20.91
	8H	19.73	20.46	20.20	20.91	21.38	19.38	20.11	19.84	20.55	21.02
	12H	19.90	20.55	20.38	21.03	21.50	19.49	20.13	19.97	20.61	21.09
8H	4H	19.20	19.93	19.67	20.37	20.84	19.05	19.78	19.51	20.22	20.69
	6H	19.96	20.56	20.46	21.05	21.53	19.64	20.24	20.14	20.73	21.21
	8H	20.28	20.82	20.80	21.33	21.82	19.86	20.40	20.38	20.91	21.40
	12H	20.56	21.04	21.08	21.53	22.10	20.04	20.52	20.56	21.01	21.58
12H	4H	19.21	19.86	19.70	20.34	20.82	19.08	19.73	19.56	20.21	20.68
	6H	20.00	20.54	20.52	21.05	21.54	19.71	20.25	20.22	20.76	21.25
	8H	20.40	20.88	20.91	21.37	21.94	19.99	20.47	20.50	20.96	21.53