

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: NEO-RAY

Report Number: P334565

Luminaire Tested: **S122IP-S330U930-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122IP-S330U930-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 330 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1068.7 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

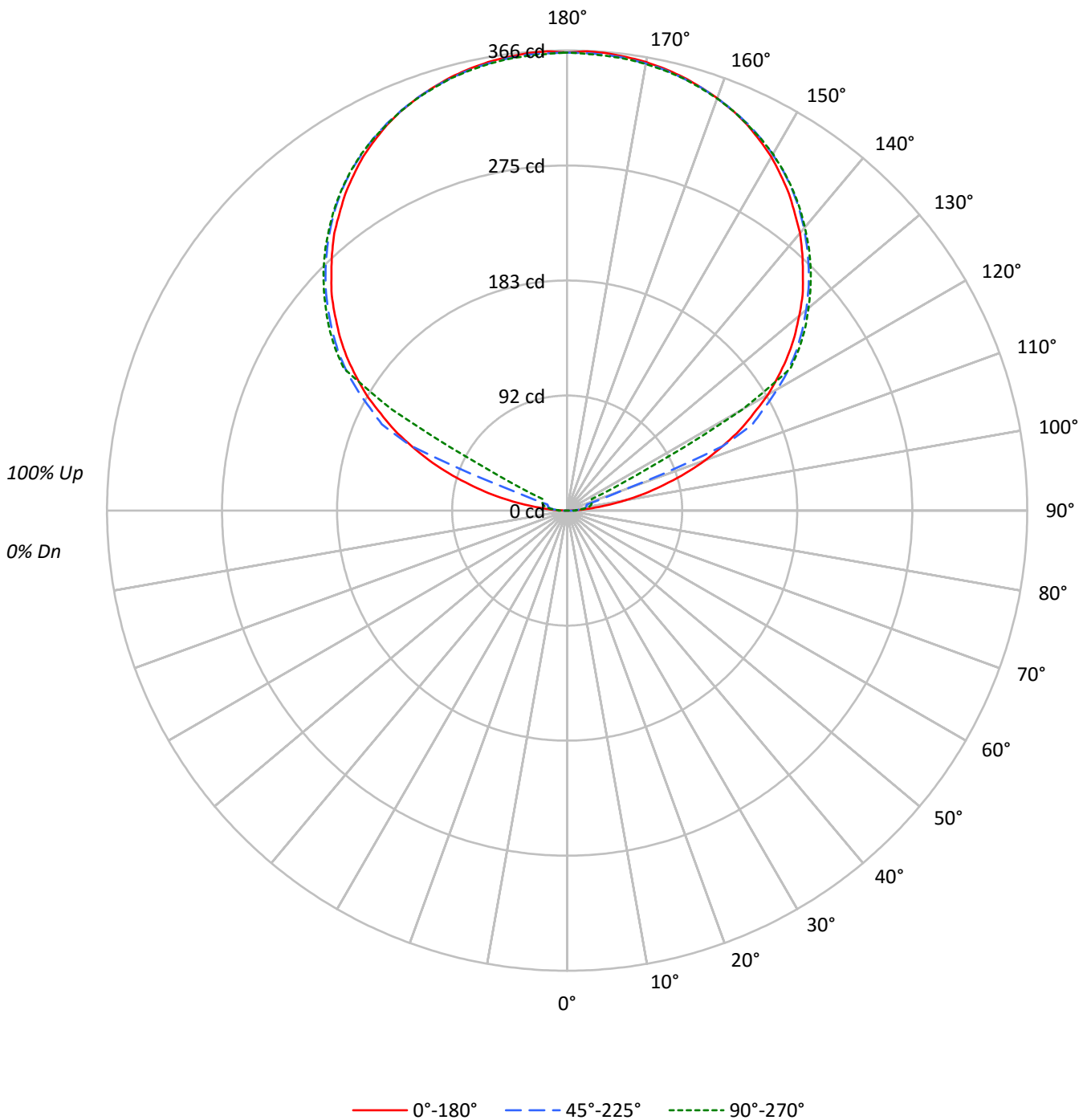
Input Watts (W): 11.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P334565

CATALOG NUMBER: S122IP-S330U930-4F0-1E-UDD

### Luminous Intensity Polar Plot





TEST NUMBER: P334565

CATALOG NUMBER: S122IP-S330U930-4F0-1E-UDD

**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	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P334565

CATALOG NUMBER: S122IP-S330U930-4F0-1E-UDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.6	0.1
90°-100°	12.0	1.1
100°-110°	44.8	4.2
110°-120°	118.8	11.1
120°-130°	197.0	18.4
130°-140°	209.2	19.6
140°-150°	194.5	18.2
150°-160°	156.3	14.6
160°-170°	100.7	9.4
170°-180°	34.7	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.6	0.1
90°-120°	175.6	16.4
90°-150°	776.2	72.6
90°-180°	1068.0	99.9
0°-180°	1068.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	3	5	7	7	1
95°	17	8	10	12	11	20
105°	80	88	16	19	20	86
115°	152	156	163	41	22	149
125°	214	218	223	225	225	191
135°	265	269	272	274	274	205
145°	308	307	312	314	312	192
155°	339	336	340	341	339	156
165°	357	355	356	358	356	101
175°	365	363	364	366	363	35
180°	364	364	364	364	364	



TEST NUMBER: P334565

CATALOG NUMBER: S122IP-S330U930-4F0-1E-UDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.3	3.2	5.3	6.6	7.1
92.5°	6.6	5.5	6.3	6.9	7.1
95°	17.1	8.4	10.3	11.6	11.3
97.5°	30.8	9.2	13.4	14.2	14.5
100°	46.7	10.5	15.0	17.1	17.7
102.5°	64.1	63.5	15.6	18.5	19.2
105°	80.1	88.0	16.1	19.0	20.0
107.5°	98.9	105.4	16.6	19.5	20.6
110°	116.8	122.3	46.1	19.8	20.8



TEST NUMBER: P334565

CATALOG NUMBER: S122IP-S330U930-4F0-1E-UDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	133.7	138.4	133.9	20.3	21.1
115°	151.6	156.1	162.6	40.6	21.6
117.5°	167.1	172.4	176.9	139.2	70.1
120°	184.5	188.5	193.2	196.4	160.8
122.5°	199.3	203.5	208.8	210.4	210.6
125°	214.3	217.7	222.8	224.6	225.4
127.5°	228.0	231.7	235.7	238.3	238.6
130°	240.9	245.2	248.1	251.0	250.7
132.5°	254.1	257.5	260.4	262.8	262.6
135°	265.2	269.4	271.8	274.4	273.9
137.5°	276.8	280.0	282.6	285.2	284.4
140°	288.1	290.2	293.1	295.5	294.2
142.5°	297.6	299.5	302.9	305.0	303.7
145°	307.6	307.4	311.9	313.7	312.4
147.5°	316.3	315.5	320.0	321.3	320.3
150°	324.8	322.9	327.1	328.7	327.4
152.5°	331.9	329.8	333.7	335.3	333.5
155°	338.7	336.4	339.5	341.1	339.0
157.5°	344.3	342.2	344.5	346.4	344.3
160°	349.0	347.4	349.0	350.6	348.8
162.5°	353.2	351.7	353.0	354.8	352.4
165°	356.9	355.3	356.1	358.0	356.1
167.5°	359.8	358.2	359.0	360.9	358.5
170°	362.2	360.6	361.1	363.0	360.6
172.5°	363.8	362.2	362.7	364.6	362.2
175°	365.1	363.3	363.8	365.6	363.0
177.5°	365.6	363.8	364.0	365.9	363.5
180°	364.3	364.3	364.3	364.3	364.3

(END OF REPORT)