

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: P334561

Luminaire Tested: **S122IP-S530U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334561
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-S530U927-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 530 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1676.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

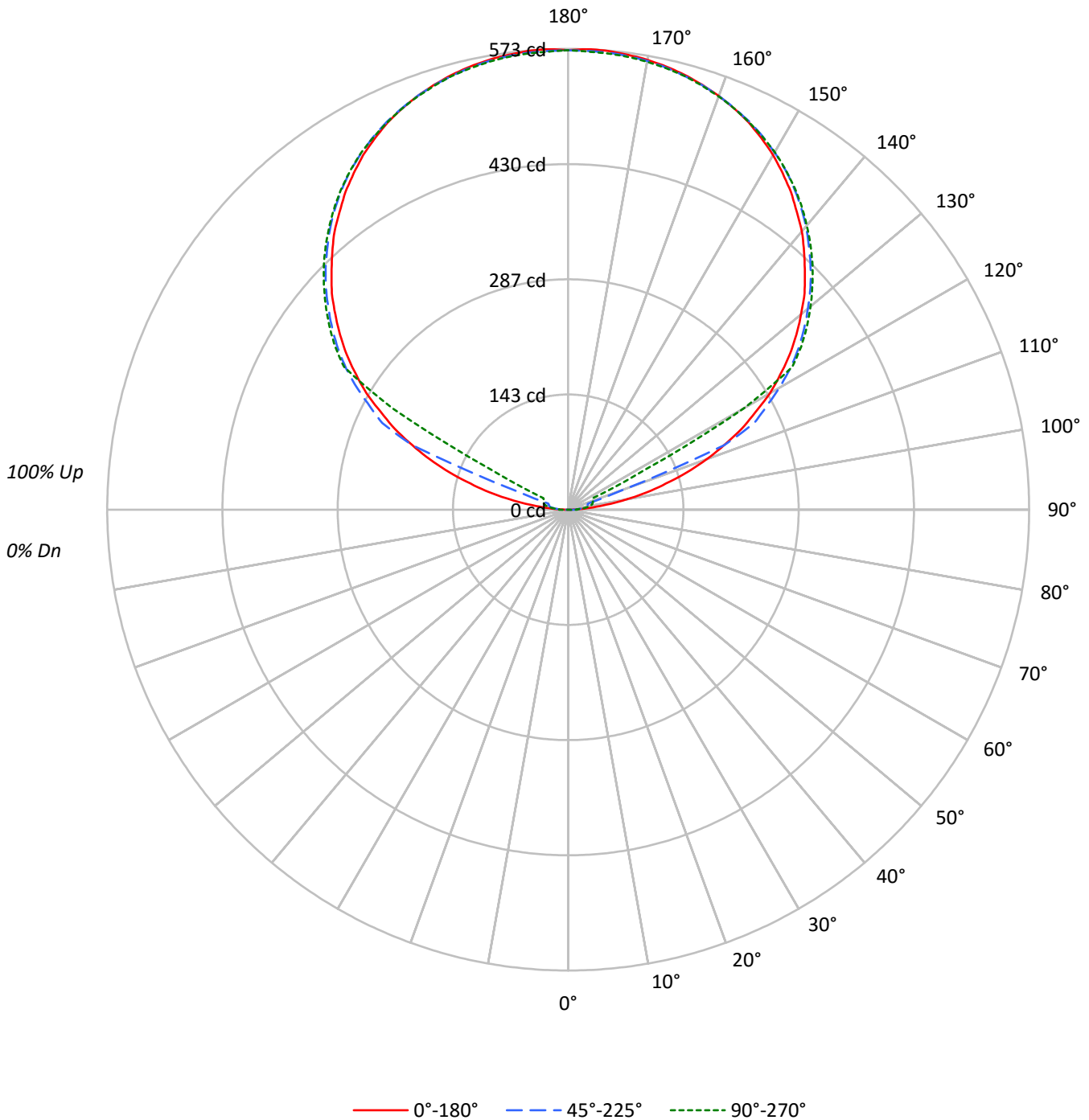
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334561

CATALOG NUMBER: S122IP-S530U927-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334561

CATALOG NUMBER: S122IP-S530U927-4F0-1E-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: P334561

CATALOG NUMBER: S122IP-S530U927-4F0-1E-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°	1.0	0.1
90°-100°	18.8	1.1
100°-110°	70.2	4.2
110°-120°	186.3	11.1
120°-130°	308.9	18.4
130°-140°	328.2	19.6
140°-150°	305.0	18.2
150°-160°	245.2	14.6
160°-170°	158.0	9.4
170°-180°	54.4	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.0	0.1
90°-120°	275.3	16.4
90°-150°	1217.4	72.6
90°-180°	1675.0	99.9
0°-180°	1676.0	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	5	8	10	11	2
95°	27	13	16	18	18	32
105°	126	138	25	30	31	134
115°	238	245	255	64	34	234
125°	336	342	349	352	354	300
135°	416	422	426	430	430	321
145°	482	482	489	492	490	302
155°	531	528	532	535	532	245
165°	560	557	558	561	558	158
175°	573	570	570	573	569	54
180°	571	571	571	571	571	



TEST NUMBER: P334561

CATALOG NUMBER: S122IP-S530U927-4F0-1E-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°	0.4	5.0	8.3	10.3	11.2
92.5°	10.3	8.7	9.9	10.7	11.2
95°	26.9	13.2	16.1	18.2	17.8
97.5°	48.4	14.5	21.1	22.3	22.7
100°	73.2	16.5	23.6	26.9	27.7
102.5°	100.5	99.6	24.4	28.9	30.2
105°	125.7	138.1	25.2	29.8	31.4
107.5°	155.0	165.4	26.0	30.6	32.2
110°	183.1	191.8	72.3	31.0	32.7



TEST NUMBER: P334561

CATALOG NUMBER: S122IP-S530U927-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.6	217.0	210.0	31.8	33.1
115°	237.7	244.7	255.1	63.7	33.9
117.5°	262.1	270.4	277.4	218.3	110.0
120°	289.4	295.6	303.0	308.0	252.2
122.5°	312.5	319.2	327.4	329.9	330.3
125°	336.1	341.5	349.3	352.2	353.5
127.5°	357.6	363.4	369.6	373.7	374.1
130°	377.9	384.5	389.0	393.6	393.2
132.5°	398.5	403.9	408.5	412.2	411.8
135°	415.9	422.5	426.2	430.4	429.5
137.5°	434.1	439.0	443.2	447.3	446.1
140°	451.9	455.2	459.7	463.4	461.4
142.5°	466.7	469.6	475.0	478.3	476.3
145°	482.5	482.0	489.1	492.0	489.9
147.5°	496.1	494.9	501.9	504.0	502.3
150°	509.3	506.4	513.0	515.5	513.5
152.5°	520.5	517.2	523.4	525.9	523.0
155°	531.2	527.5	532.5	535.0	531.7
157.5°	539.9	536.6	540.3	543.2	539.9
160°	547.4	544.9	547.4	549.8	546.9
162.5°	554.0	551.5	553.6	556.5	552.7
165°	559.8	557.3	558.5	561.4	558.5
167.5°	564.3	561.8	563.1	566.0	562.2
170°	568.0	565.6	566.4	569.3	565.6
172.5°	570.5	568.0	568.9	571.8	568.0
175°	572.6	569.7	570.5	573.4	569.3
177.5°	573.4	570.5	570.9	573.8	570.1
180°	571.3	571.3	571.3	571.3	571.3

(END OF REPORT)