

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: P334546

Luminaire Tested: **S122IP-S530U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334546
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-S530U830-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 530 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1994.1 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

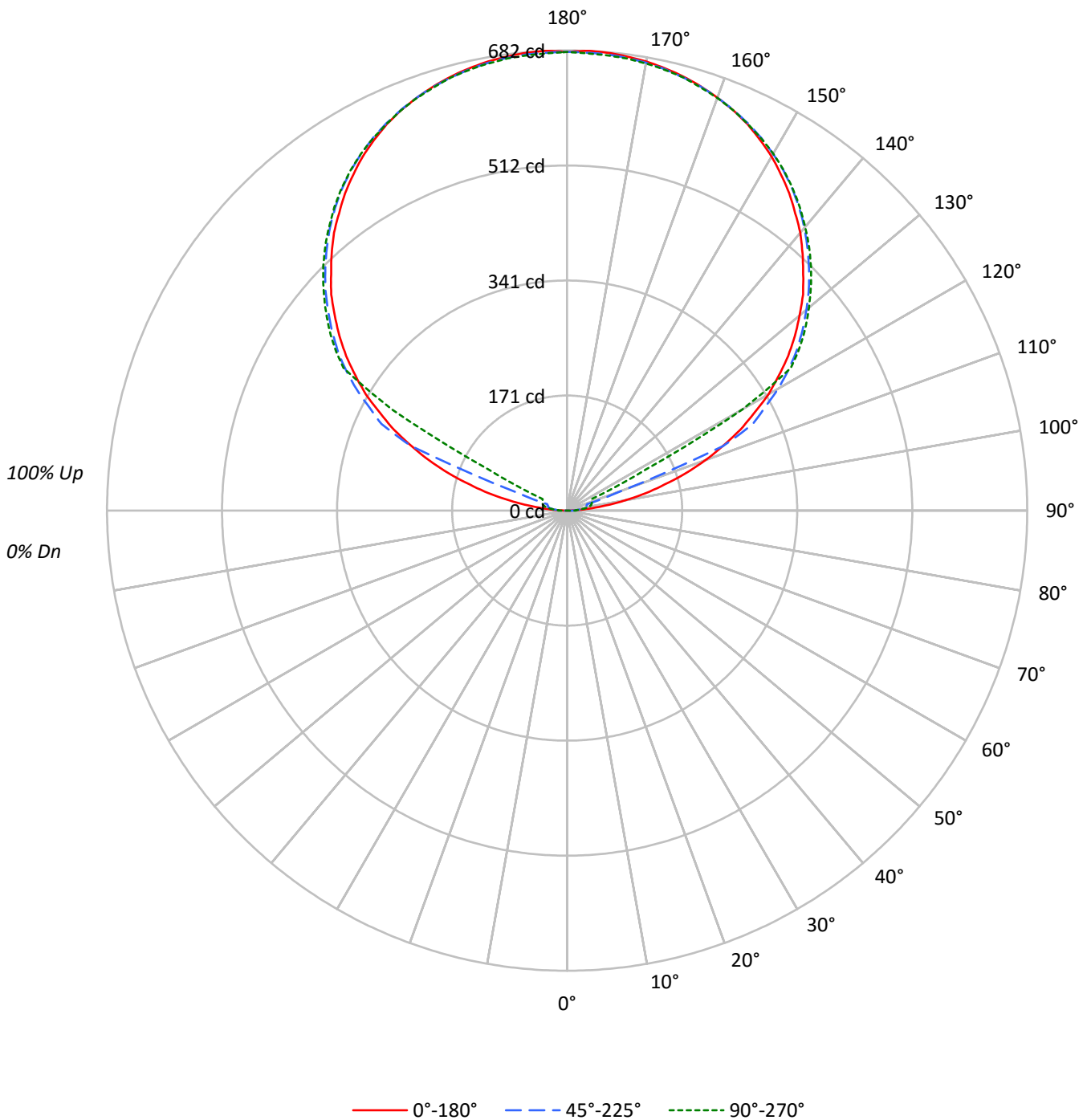
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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



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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°	1.2	0.1
90°-100°	22.4	1.1
100°-110°	83.6	4.2
110°-120°	221.6	11.1
120°-130°	367.6	18.4
130°-140°	390.4	19.6
140°-150°	362.9	18.2
150°-160°	291.7	14.6
160°-170°	188.0	9.4
170°-180°	64.7	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.2	0.1
90°-120°	327.6	16.4
90°-150°	1448.5	72.6
90°-180°	1993.0	99.9
0°-180°	1994.1	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	6	10	12	13	2
95°	32	16	19	22	21	38
105°	150	164	30	35	37	160
115°	283	291	304	76	40	278
125°	400	406	416	419	421	357
135°	495	503	507	512	511	382
145°	574	574	582	585	583	359
155°	632	628	634	636	633	291
165°	666	663	664	668	664	188
175°	681	678	679	682	677	65
180°	680	680	680	680	680	



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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°	0.5	5.9	9.8	12.3	13.3
92.5°	12.3	10.3	11.8	12.8	13.3
95°	32.0	15.7	19.2	21.6	21.2
97.5°	57.6	17.2	25.1	26.6	27.1
100°	87.1	19.7	28.0	32.0	33.0
102.5°	119.5	118.5	29.0	34.4	35.9
105°	149.5	164.3	30.0	35.4	37.4
107.5°	184.5	196.8	31.0	36.4	38.4
110°	217.9	228.2	86.1	36.9	38.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	249.4	258.2	249.9	37.9	39.4
115°	282.8	291.2	303.5	75.8	40.3
117.5°	311.9	321.7	330.1	259.7	130.8
120°	344.3	351.7	360.6	366.5	300.0
122.5°	371.9	379.7	389.6	392.5	393.0
125°	399.9	406.3	415.6	419.1	420.6
127.5°	425.5	432.4	439.7	444.7	445.2
130°	449.6	457.5	462.9	468.3	467.8
132.5°	474.2	480.6	486.0	490.4	489.9
135°	494.8	502.7	507.1	512.1	511.1
137.5°	516.5	522.4	527.3	532.2	530.7
140°	537.6	541.6	547.0	551.4	548.9
142.5°	555.3	558.8	565.2	569.1	566.7
145°	574.0	573.5	581.9	585.3	582.9
147.5°	590.3	588.8	597.1	599.6	597.6
150°	606.0	602.6	610.4	613.4	610.9
152.5°	619.3	615.3	622.7	625.7	622.2
155°	632.1	627.6	633.5	636.5	632.6
157.5°	642.4	638.5	642.9	646.3	642.4
160°	651.3	648.3	651.3	654.2	650.8
162.5°	659.1	656.2	658.6	662.1	657.6
165°	666.0	663.1	664.5	668.0	664.5
167.5°	671.4	668.5	669.9	673.4	669.0
170°	675.8	672.9	673.9	677.3	672.9
172.5°	678.8	675.8	676.8	680.3	675.8
175°	681.3	677.8	678.8	682.2	677.3
177.5°	682.2	678.8	679.3	682.7	678.3
180°	679.8	679.8	679.8	679.8	679.8

(END OF REPORT)