

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: P334476

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)
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-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 1782.5 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

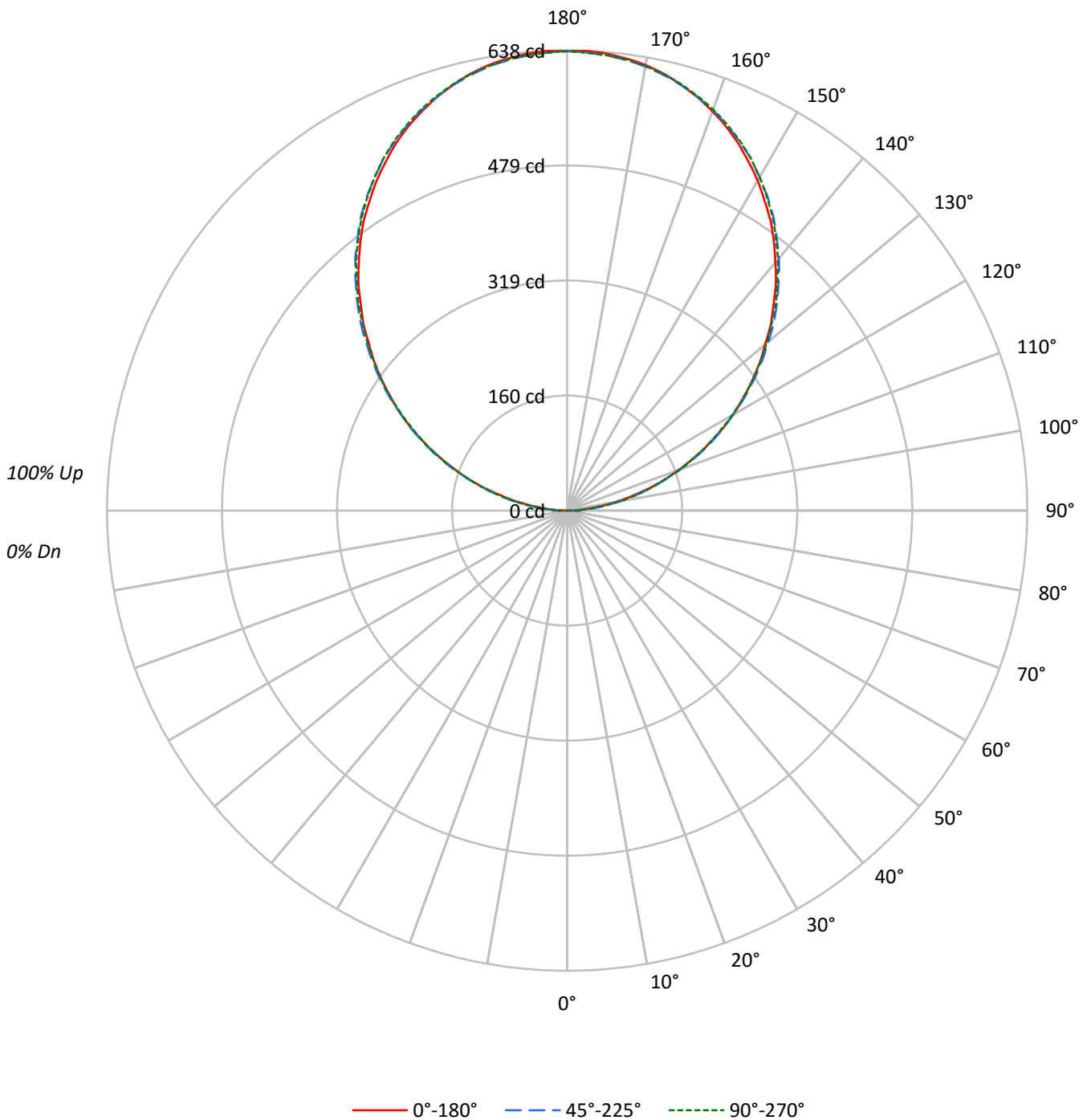
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334476

CATALOG NUMBER: S122IP-S530U830-4F0-1E-UDD-1

Luminous Intensity Polar Plot





TEST NUMBER: P334476

CATALOG NUMBER: S122IP-S530U830-4F0-1E-UDD-1

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: P334476

CATALOG NUMBER: S122IP-S530U830-4F0-1E-UDD-1

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°	1.8	0.1
90°-100°	39.4	2.2
100°-110°	125.3	7.0
110°-120°	214.3	12.0
120°-130°	281.9	15.8
130°-140°	316.4	17.7
140°-150°	310.3	17.4
150°-160°	260.3	14.6
160°-170°	172.6	9.7
170°-180°	60.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.8	0.1
90°-120°	379.0	21.3
90°-150°	1287.5	72.2
90°-180°	1781.0	99.9
0°-180°	1782.5	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	7	19	18	18	2
95°	28	33	34	34	33	31
105°	116	117	118	119	119	122
115°	215	218	217	217	215	213
125°	313	318	316	314	314	280
135°	405	411	412	411	410	313
145°	491	495	498	499	497	307
155°	562	563	565	568	566	259
165°	611	611	611	614	612	172
175°	636	634	633	637	634	60
180°	637	637	637	637	637	



TEST NUMBER: P334476

CATALOG NUMBER: S122IP-S530U830-4F0-1E-UDD-1

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	7.0	18.8	17.7	18.3
92.5°	11.8	16.1	16.7	17.2	17.2
95°	27.9	33.3	34.4	34.4	33.3
97.5°	46.8	51.6	53.7	53.7	53.7
100°	68.3	72.6	74.2	74.2	73.6
102.5°	90.8	94.1	96.2	96.7	96.2
105°	115.6	117.2	118.2	119.3	119.3
107.5°	140.3	142.4	142.4	143.0	140.3
110°	163.9	167.2	167.2	167.2	165.5



TEST NUMBER: P334476

CATALOG NUMBER: S122IP-S530U830-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.7	193.0	192.4	190.8	189.7
115°	215.0	218.2	217.1	216.6	215.0
117.5°	240.3	244.6	241.9	240.3	238.6
120°	265.5	269.8	265.5	265.5	263.9
122.5°	288.6	294.0	291.3	289.7	288.6
125°	312.8	317.7	316.0	314.4	313.9
127.5°	336.5	342.4	340.2	338.1	336.5
130°	358.5	365.5	364.4	363.3	361.2
132.5°	383.2	388.6	389.1	386.4	384.8
135°	404.7	410.6	411.7	411.2	409.6
137.5°	428.4	433.2	434.3	433.7	431.6
140°	449.3	454.2	456.9	456.9	454.7
142.5°	470.8	475.7	477.3	477.8	475.7
145°	491.3	495.0	498.2	498.8	496.6
147.5°	509.5	514.4	516.5	517.6	515.4
150°	528.3	531.6	533.7	535.3	533.7
152.5°	545.0	548.2	550.9	553.1	550.9
155°	561.7	563.3	564.9	567.6	566.0
157.5°	576.2	577.3	578.3	582.1	579.4
160°	589.1	590.2	590.7	593.9	591.8
162.5°	600.9	600.9	601.4	605.2	602.5
165°	611.1	610.6	610.6	614.3	611.7
167.5°	620.3	618.6	618.6	622.4	619.7
170°	627.2	625.6	625.1	628.9	625.6
172.5°	632.1	630.5	629.9	633.7	630.5
175°	635.8	634.2	633.2	636.9	633.7
177.5°	638.0	636.4	635.3	638.5	635.3
180°	636.9	636.9	636.9	636.9	636.9

(END OF REPORT)