

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: P334481

Luminaire Tested: **S122IP-S530U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334481
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-S530U835-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 530 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

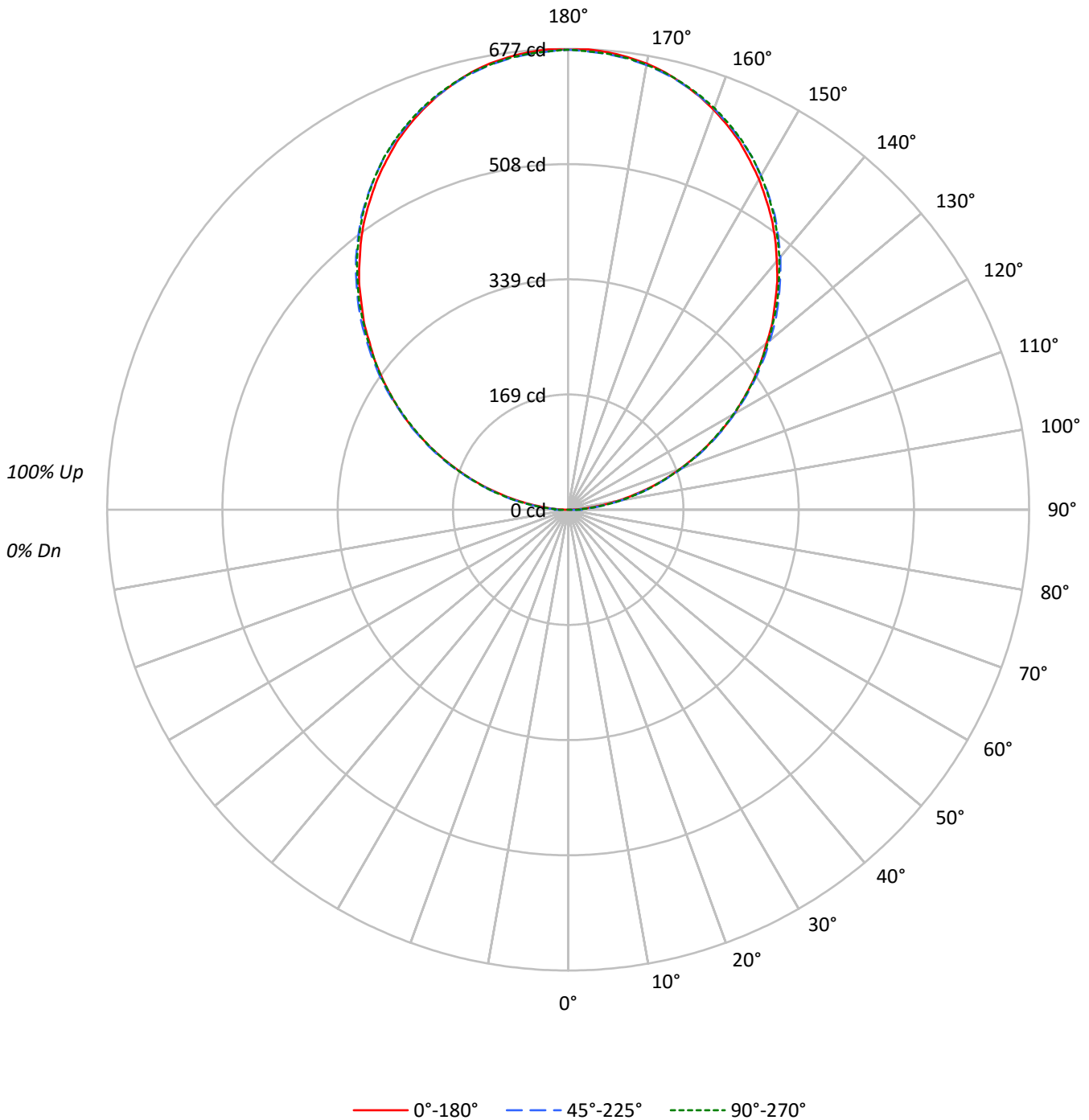
Lumens per Lamp: N/A
Luminaire Lumens: 1891.2 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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: P334481
CATALOG NUMBER: S122IP-S530U835-4F0-1E-UDD-1

Luminous Intensity Polar Plot





TEST NUMBER: P334481

CATALOG NUMBER: S122IP-S530U835-4F0-1E-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: P334481

CATALOG NUMBER: S122IP-S530U835-4F0-1E-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°	1.9	0.1
90°-100°	41.8	2.2
100°-110°	132.9	7.0
110°-120°	227.4	12.0
120°-130°	299.1	15.8
130°-140°	335.7	17.8
140°-150°	329.2	17.4
150°-160°	276.1	14.6
160°-170°	183.1	9.7
170°-180°	64.0	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.1
90°-120°	402.1	21.3
90°-150°	1366.0	72.2
90°-180°	1889.0	99.9
0°-180°	1891.2	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°	1	7	20	19	19	2
95°	30	35	36	36	35	33
105°	123	124	126	127	127	129
115°	228	232	230	230	228	226
125°	332	337	335	334	333	297
135°	429	436	437	436	434	332
145°	521	525	529	529	527	326
155°	596	598	599	602	600	274
165°	648	648	648	652	649	183
175°	675	673	672	676	672	64
180°	676	676	676	676	676	



TEST NUMBER: P334481

CATALOG NUMBER: S122IP-S530U835-4F0-1E-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°	0.6	7.4	20.0	18.8	19.4
92.5°	12.5	17.1	17.7	18.2	18.2
95°	29.7	35.4	36.5	36.5	35.4
97.5°	49.6	54.7	57.0	57.0	57.0
100°	72.4	77.0	78.7	78.7	78.1
102.5°	96.4	99.8	102.1	102.6	102.1
105°	122.6	124.3	125.5	126.6	126.6
107.5°	148.8	151.1	151.1	151.7	148.8
110°	173.9	177.3	177.3	177.3	175.6



TEST NUMBER: P334481

CATALOG NUMBER: S122IP-S530U835-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	201.3	204.7	204.1	202.4	201.3
115°	228.1	231.5	230.4	229.8	228.1
117.5°	254.9	259.5	256.6	254.9	253.2
120°	281.7	286.3	281.7	281.7	280.0
122.5°	306.2	311.9	309.1	307.4	306.2
125°	331.9	337.0	335.3	333.6	333.0
127.5°	357.0	363.2	361.0	358.7	357.0
130°	380.4	387.8	386.6	385.5	383.2
132.5°	406.6	412.3	412.9	410.0	408.3
135°	429.4	435.7	436.8	436.2	434.5
137.5°	454.5	459.6	460.8	460.2	457.9
140°	476.7	481.9	484.7	484.7	482.4
142.5°	499.5	504.7	506.4	506.9	504.7
145°	521.2	525.2	528.6	529.2	526.9
147.5°	540.6	545.7	548.0	549.1	546.9
150°	560.6	564.0	566.3	568.0	566.3
152.5°	578.2	581.6	584.5	586.8	584.5
155°	595.9	597.6	599.3	602.2	600.5
157.5°	611.3	612.4	613.6	617.6	614.7
160°	625.0	626.1	626.7	630.1	627.8
162.5°	637.5	637.5	638.1	642.1	639.2
165°	648.4	647.8	647.8	651.8	648.9
167.5°	658.1	656.4	656.4	660.3	657.5
170°	665.5	663.8	663.2	667.2	663.8
172.5°	670.6	668.9	668.3	672.3	668.9
175°	674.6	672.9	671.7	675.7	672.3
177.5°	676.9	675.2	674.0	677.5	674.0
180°	675.7	675.7	675.7	675.7	675.7

(END OF REPORT)