

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: P334551

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334551
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-S530U835-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 530 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

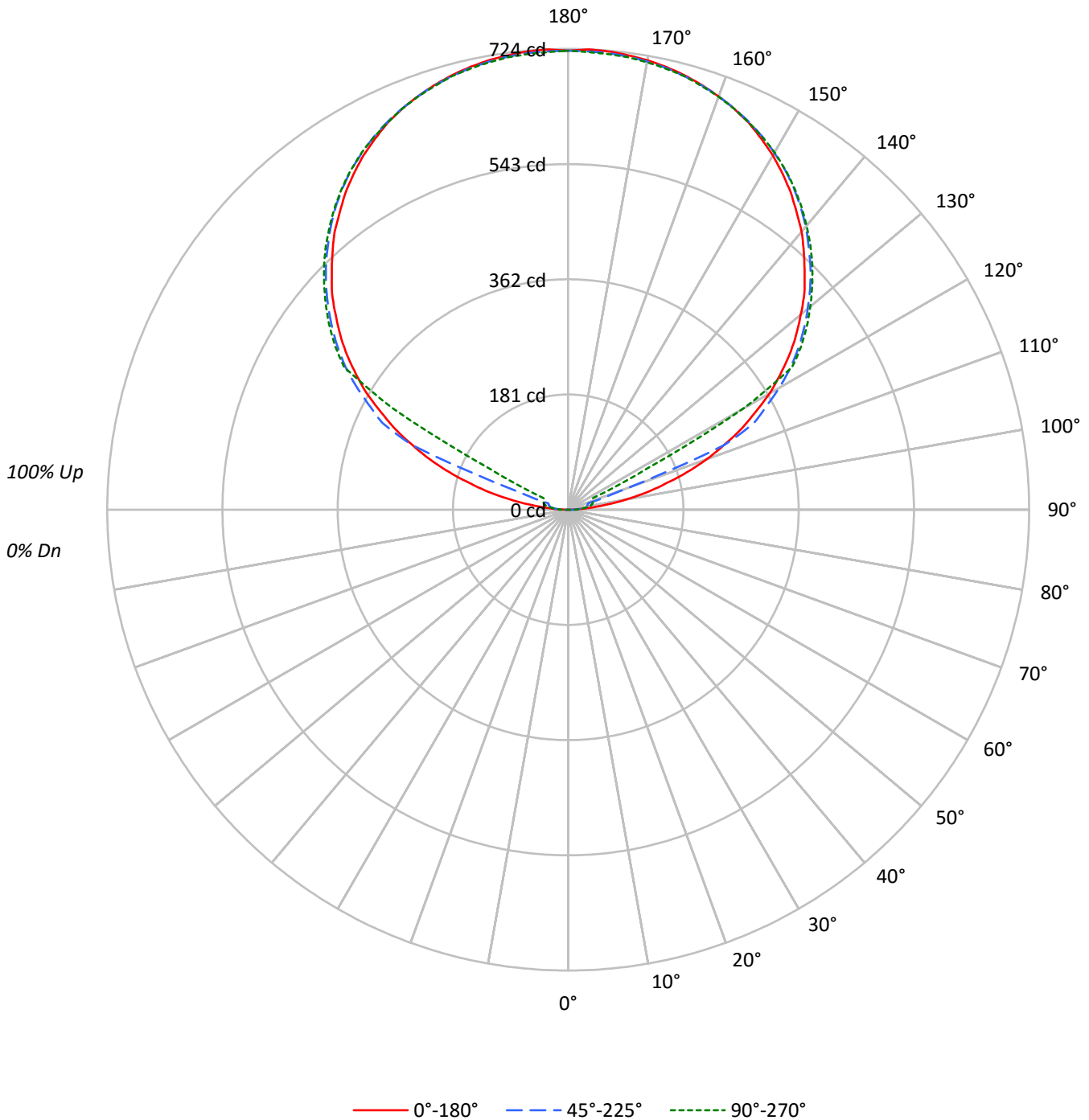
Lumens per Lamp: N/A
Luminaire Lumens: 2115.6 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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: P334551
CATALOG NUMBER: S122IP-S530U835-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334551

CATALOG NUMBER: S122IP-S530U835-4F0-1E-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: P334551

CATALOG NUMBER: S122IP-S530U835-4F0-1E-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°	1.3	0.1
90°-100°	23.8	1.1
100°-110°	88.6	4.2
110°-120°	235.1	11.1
120°-130°	390.0	18.4
130°-140°	414.2	19.6
140°-150°	385.0	18.2
150°-160°	309.5	14.6
160°-170°	199.4	9.4
170°-180°	68.6	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.3	0.1
90°-120°	347.6	16.4
90°-150°	1536.8	72.6
90°-180°	2114.0	99.9
0°-180°	2115.6	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	13	14	2
95°	34	17	20	23	22	40
105°	159	174	32	38	40	169
115°	300	309	322	80	43	295
125°	424	431	441	445	446	378
135°	525	533	538	543	542	406
145°	609	608	617	621	618	381
155°	671	666	672	675	671	309
165°	707	704	705	709	705	200
175°	723	719	720	724	719	69
180°	721	721	721	721	721	



TEST NUMBER: P334551

CATALOG NUMBER: S122IP-S530U835-4F0-1E-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°	0.5	6.3	10.4	13.0	14.1
92.5°	13.0	11.0	12.5	13.6	14.1
95°	33.9	16.7	20.4	23.0	22.4
97.5°	61.1	18.3	26.6	28.2	28.7
100°	92.4	20.9	29.7	33.9	35.0
102.5°	126.8	125.8	30.8	36.5	38.1
105°	158.6	174.3	31.8	37.6	39.7
107.5°	195.7	208.7	32.9	38.6	40.7
110°	231.2	242.1	91.3	39.1	41.2



TEST NUMBER: P334551

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.6	274.0	265.1	40.2	41.7
115°	300.1	308.9	322.0	80.4	42.8
117.5°	330.9	341.3	350.2	275.5	138.8
120°	365.3	373.1	382.5	388.8	318.3
122.5°	394.5	402.9	413.3	416.5	417.0
125°	424.3	431.1	441.0	444.6	446.2
127.5°	451.4	458.7	466.6	471.8	472.3
130°	477.0	485.3	491.1	496.8	496.3
132.5°	503.1	509.9	515.6	520.3	519.8
135°	525.0	533.4	538.0	543.3	542.2
137.5°	548.0	554.2	559.4	564.7	563.1
140°	570.4	574.6	580.3	585.0	582.4
142.5°	589.2	592.8	599.6	603.8	601.2
145°	609.0	608.5	617.4	621.0	618.4
147.5°	626.2	624.7	633.5	636.2	634.1
150°	642.9	639.3	647.6	650.8	648.2
152.5°	657.0	652.9	660.7	663.8	660.2
155°	670.6	665.9	672.2	675.3	671.1
157.5°	681.6	677.4	682.1	685.7	681.6
160°	691.0	687.8	691.0	694.1	690.4
162.5°	699.3	696.2	698.8	702.4	697.7
165°	706.6	703.5	705.0	708.7	705.0
167.5°	712.4	709.2	710.8	714.4	709.7
170°	717.0	713.9	715.0	718.6	713.9
172.5°	720.2	717.0	718.1	721.7	717.0
175°	722.8	719.1	720.2	723.8	718.6
177.5°	723.8	720.2	720.7	724.4	719.7
180°	721.2	721.2	721.2	721.2	721.2

(END OF REPORT)