

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: P334545

Luminaire Tested: **S122IP-S330U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334545
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-S330U830-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 330 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1235.4 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

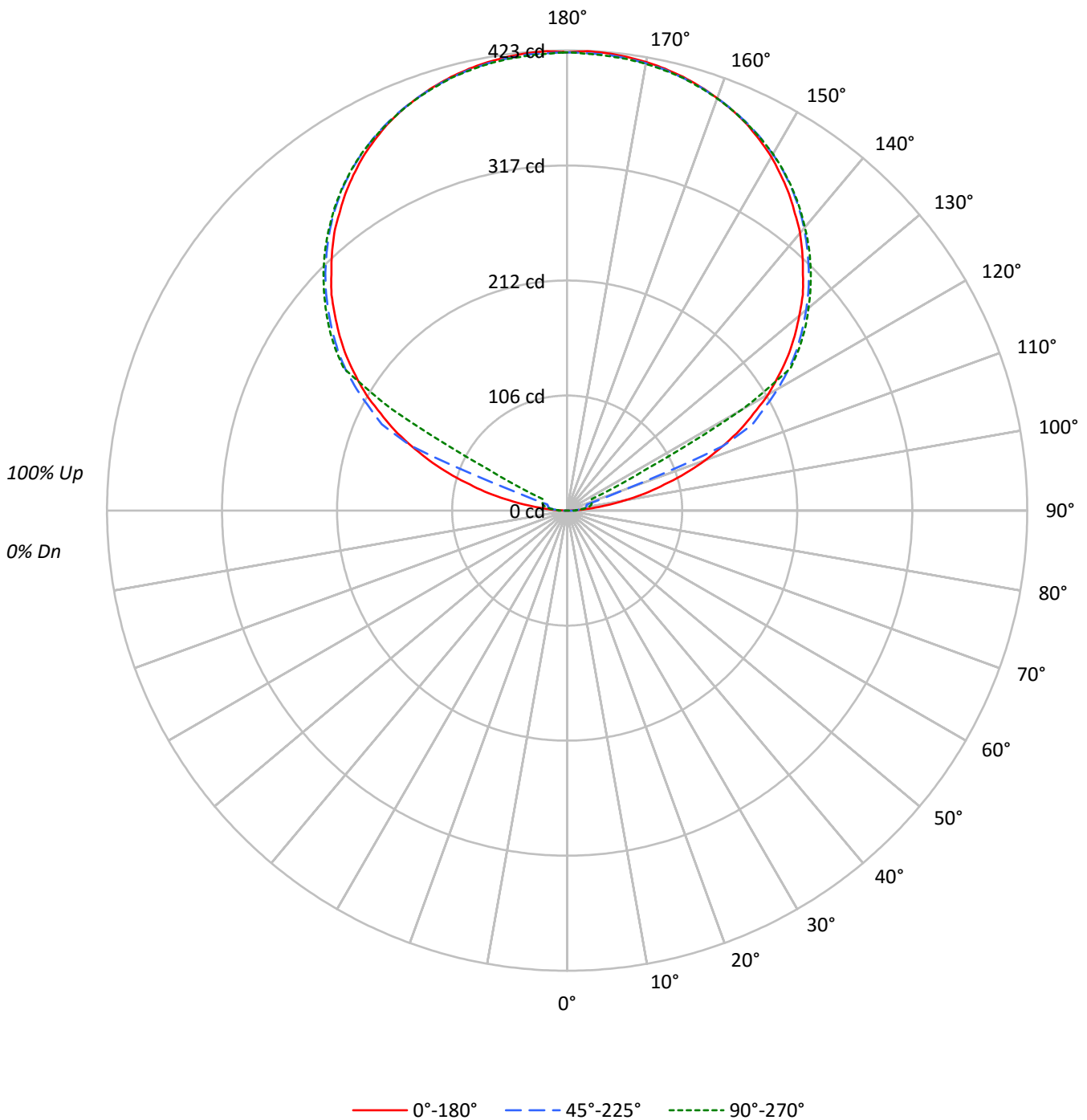
Input Watts (W): 11.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334545

CATALOG NUMBER: S122IP-S330U830-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334545

CATALOG NUMBER: S122IP-S330U830-4F0-1E-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: P334545

CATALOG NUMBER: S122IP-S330U830-4F0-1E-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°	0.7	0.1
90°-100°	13.9	1.1
100°-110°	51.8	4.2
110°-120°	137.3	11.1
120°-130°	227.7	18.4
130°-140°	241.9	19.6
140°-150°	224.8	18.2
150°-160°	180.7	14.6
160°-170°	116.5	9.4
170°-180°	40.1	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.7	0.1
90°-120°	203.0	16.4
90°-150°	897.4	72.6
90°-180°	1235.0	100.0
0°-180°	1235.4	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	4	6	8	8	1
95°	20	10	12	13	13	23
105°	93	102	19	22	23	99
115°	175	180	188	47	25	172
125°	248	252	258	260	261	221
135°	307	312	314	317	317	237
145°	356	355	360	363	361	222
155°	392	389	392	394	392	180
165°	413	411	412	414	412	117
175°	422	420	421	423	420	40
180°	421	421	421	421	421	



TEST NUMBER: P334545

CATALOG NUMBER: S122IP-S330U830-4F0-1E-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°	0.3	3.7	6.1	7.6	8.2
92.5°	7.6	6.4	7.3	7.9	8.2
95°	19.8	9.8	11.9	13.4	13.1
97.5°	35.7	10.7	15.5	16.5	16.8
100°	53.9	12.2	17.4	19.8	20.4
102.5°	74.1	73.4	18.0	21.3	22.2
105°	92.6	101.8	18.6	21.9	23.2
107.5°	114.3	121.9	19.2	22.6	23.8
110°	135.0	141.4	53.3	22.9	24.1



TEST NUMBER: P334545

CATALOG NUMBER: S122IP-S330U830-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.5	160.0	154.8	23.5	24.4
115°	175.2	180.4	188.0	46.9	25.0
117.5°	193.2	199.3	204.5	160.9	81.1
120°	213.3	217.9	223.4	227.0	185.9
122.5°	230.4	235.3	241.4	243.2	243.5
125°	247.8	251.7	257.5	259.6	260.6
127.5°	263.6	267.9	272.4	275.5	275.8
130°	278.5	283.4	286.8	290.1	289.8
132.5°	293.8	297.7	301.1	303.8	303.5
135°	306.6	311.5	314.2	317.2	316.6
137.5°	320.0	323.6	326.7	329.7	328.8
140°	333.1	335.5	338.9	341.6	340.1
142.5°	344.1	346.2	350.2	352.6	351.1
145°	355.6	355.3	360.5	362.7	361.1
147.5°	365.7	364.8	370.0	371.5	370.3
150°	375.5	373.3	378.2	380.0	378.5
152.5°	383.7	381.2	385.8	387.6	385.5
155°	391.6	388.9	392.5	394.3	391.9
157.5°	398.0	395.6	398.3	400.4	398.0
160°	403.5	401.7	403.5	405.3	403.2
162.5°	408.4	406.5	408.1	410.2	407.5
165°	412.6	410.8	411.7	413.9	411.7
167.5°	416.0	414.2	415.1	417.2	414.5
170°	418.7	416.9	417.5	419.6	416.9
172.5°	420.6	418.7	419.3	421.5	418.7
175°	422.1	419.9	420.6	422.7	419.6
177.5°	422.7	420.6	420.9	423.0	420.3
180°	421.2	421.2	421.2	421.2	421.2

(END OF REPORT)