

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: P334575

Luminaire Tested: **S122IP-S330U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334575
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-S330U940-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 330 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1168.8 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

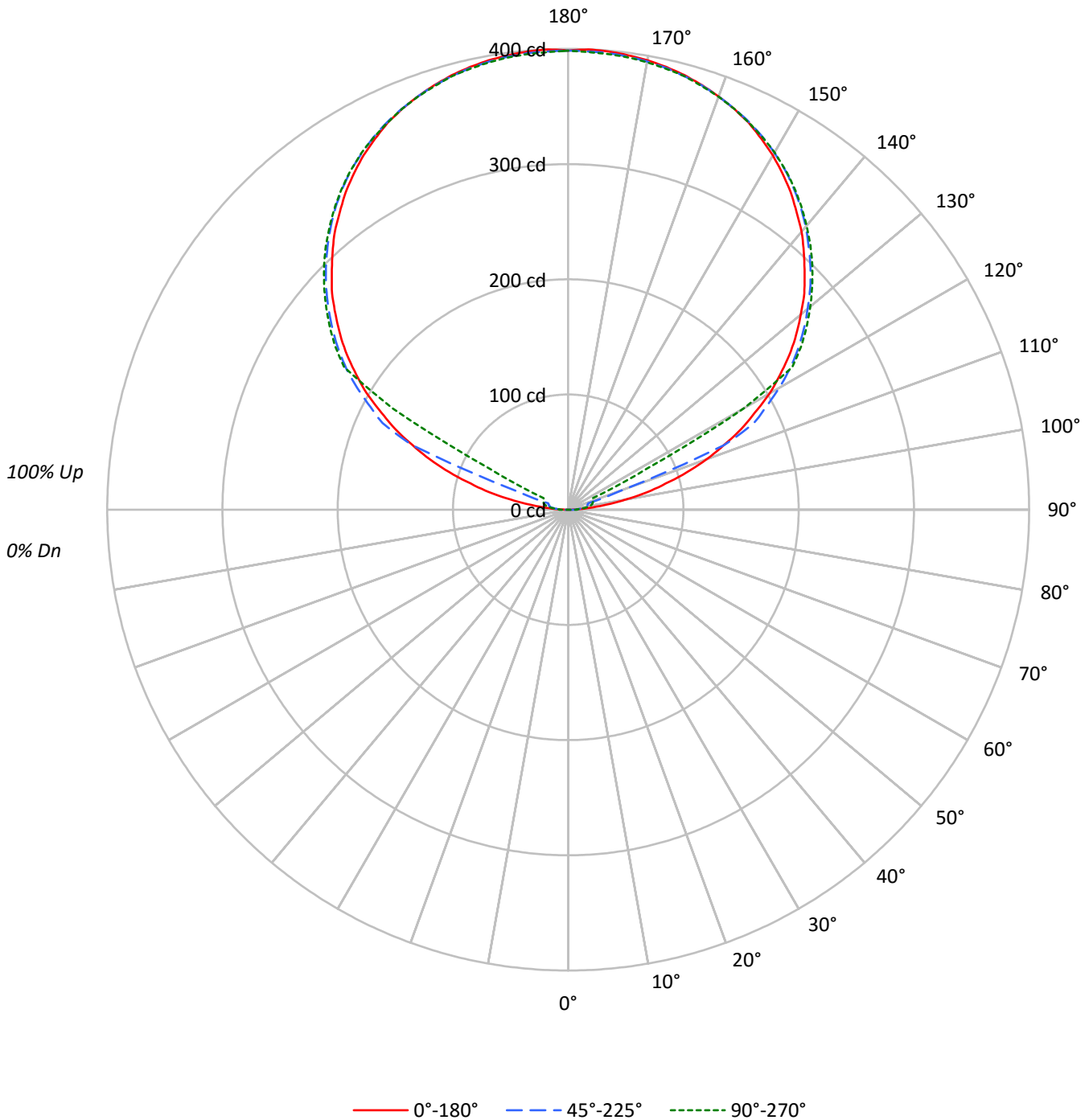
Input Watts (W): 11.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334575

CATALOG NUMBER: S122IP-S330U940-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334575

CATALOG NUMBER: S122IP-S330U940-4F0-1E-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: P334575

CATALOG NUMBER: S122IP-S330U940-4F0-1E-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°	13.1	1.1
100°-110°	49.0	4.2
110°-120°	129.9	11.1
120°-130°	215.4	18.4
130°-140°	228.9	19.6
140°-150°	212.7	18.2
150°-160°	171.0	14.6
160°-170°	110.2	9.4
170°-180°	37.9	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°	192.0	16.4
90°-150°	849.0	72.6
90°-180°	1168.0	99.9
0°-180°	1168.8	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	7	8	1
95°	19	9	11	13	12	22
105°	88	96	18	21	22	94
115°	166	171	178	44	24	163
125°	234	238	244	246	246	209
135°	290	295	297	300	300	224
145°	336	336	341	343	342	210
155°	370	368	371	373	371	171
165°	390	389	390	392	390	110
175°	399	397	398	400	397	38
180°	398	398	398	398	398	



TEST NUMBER: P334575

CATALOG NUMBER: S122IP-S330U940-4F0-1E-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	3.5	5.8	7.2	7.8
92.5°	7.2	6.1	6.9	7.5	7.8
95°	18.7	9.2	11.2	12.7	12.4
97.5°	33.7	10.1	14.7	15.6	15.9
100°	51.0	11.5	16.4	18.7	19.3
102.5°	70.1	69.5	17.0	20.2	21.0
105°	87.6	96.3	17.6	20.8	21.9
107.5°	108.1	115.3	18.2	21.3	22.5
110°	127.7	133.8	50.5	21.6	22.8



TEST NUMBER: P334575

CATALOG NUMBER: S122IP-S330U940-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.2	151.4	146.5	22.2	23.1
115°	165.8	170.7	177.9	44.4	23.6
117.5°	182.8	188.6	193.5	152.2	76.7
120°	201.8	206.1	211.3	214.8	175.9
122.5°	218.0	222.6	228.3	230.1	230.4
125°	234.4	238.1	243.6	245.6	246.5
127.5°	249.4	253.4	257.8	260.6	260.9
130°	263.5	268.1	271.3	274.5	274.2
132.5°	277.9	281.7	284.9	287.5	287.2
135°	290.0	294.7	297.3	300.1	299.6
137.5°	302.7	306.2	309.1	312.0	311.1
140°	315.1	317.4	320.6	323.2	321.8
142.5°	325.5	327.5	331.3	333.6	332.1
145°	336.5	336.2	341.1	343.1	341.7
147.5°	346.0	345.1	350.0	351.5	350.3
150°	355.2	353.2	357.8	359.5	358.1
152.5°	363.0	360.7	365.0	366.7	364.7
155°	370.5	367.9	371.4	373.1	370.8
157.5°	376.5	374.2	376.8	378.8	376.5
160°	381.7	380.0	381.7	383.5	381.4
162.5°	386.3	384.6	386.1	388.1	385.5
165°	390.4	388.7	389.5	391.5	389.5
167.5°	393.6	391.8	392.7	394.7	392.1
170°	396.1	394.4	395.0	397.0	394.4
172.5°	397.9	396.1	396.7	398.7	396.1
175°	399.3	397.3	397.9	399.9	397.0
177.5°	399.9	397.9	398.2	400.2	397.6
180°	398.5	398.5	398.5	398.5	398.5

(END OF REPORT)