

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: P334602

Luminaire Tested: **S122IW-S970U930-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334602
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: S122IW-S970U930-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 970 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

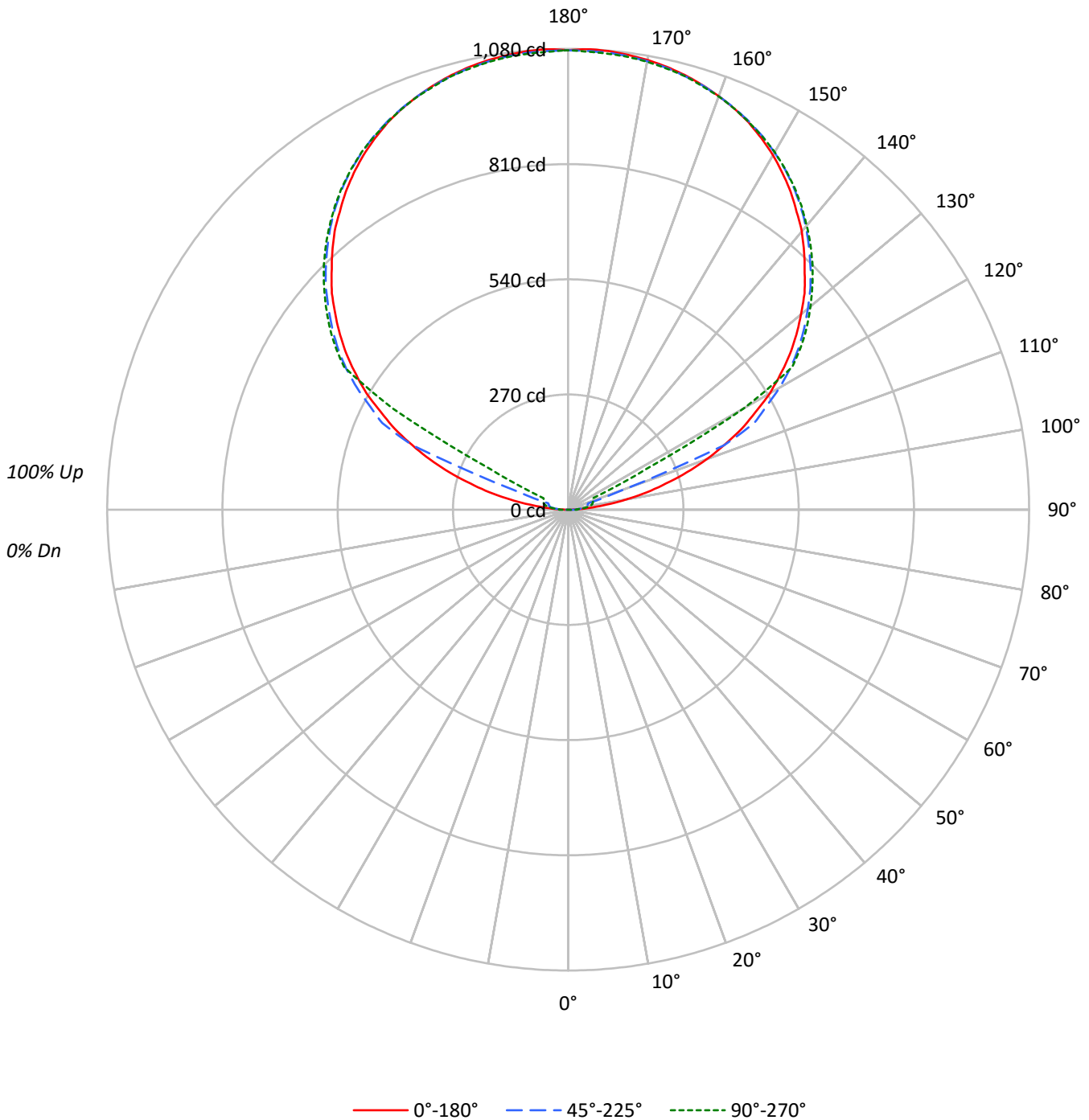
Lumens per Lamp: N/A
Luminaire Lumens: 3158.2 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 19.6
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: P334602
CATALOG NUMBER: S122IW-S970U930-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334602

CATALOG NUMBER: S122IW-S970U930-4F0-1E-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: P334602

CATALOG NUMBER: S122IW-S970U930-4F0-1E-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°	1.9	0.1
90°-100°	35.5	1.1
100°-110°	132.3	4.2
110°-120°	351.0	11.1
120°-130°	582.2	18.4
130°-140°	618.4	19.6
140°-150°	574.7	18.2
150°-160°	462.1	14.6
160°-170°	297.7	9.4
170°-180°	102.5	3.2
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°	518.8	16.4
90°-150°	2294.1	72.6
90°-180°	3156.0	99.9
0°-180°	3158.2	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	9	16	20	21	3
95°	51	25	30	34	34	60
105°	237	260	48	56	59	253
115°	448	461	481	120	64	441
125°	633	644	658	664	666	565
135°	784	796	803	811	809	605
145°	909	908	922	927	923	569
155°	1001	994	1003	1008	1002	461
165°	1055	1050	1052	1058	1052	298
175°	1079	1074	1075	1080	1073	103
180°	1077	1077	1077	1077	1077	



TEST NUMBER: P334602

CATALOG NUMBER: S122IW-S970U930-4F0-1E-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°	0.8	9.3	15.6	19.5	21.0
92.5°	19.5	16.4	18.7	20.3	21.0
95°	50.6	24.9	30.4	34.3	33.5
97.5°	91.1	27.3	39.7	42.1	42.8
100°	137.9	31.2	44.4	50.6	52.2
102.5°	189.3	187.7	46.0	54.5	56.9
105°	236.8	260.2	47.5	56.1	59.2
107.5°	292.1	311.6	49.1	57.6	60.8
110°	345.1	361.5	136.3	58.4	61.5



TEST NUMBER: P334602

CATALOG NUMBER: S122IW-S970U930-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	395.0	409.0	395.8	60.0	62.3
115°	448.0	461.2	480.7	120.0	63.9
117.5°	493.9	509.5	522.7	411.3	207.2
120°	545.3	557.0	571.0	580.4	475.2
122.5°	589.0	601.4	617.0	621.7	622.5
125°	633.4	643.5	658.3	663.7	666.1
127.5°	673.9	684.8	696.5	704.3	705.0
130°	712.0	724.5	733.1	741.7	740.9
132.5°	751.0	761.1	769.7	776.7	775.9
135°	783.7	796.2	803.2	811.0	809.4
137.5°	818.0	827.3	835.1	842.9	840.6
140°	851.5	857.7	866.3	873.3	869.4
142.5°	879.5	885.0	895.1	901.4	897.5
145°	909.1	908.4	921.6	927.1	923.2
147.5°	934.9	932.5	945.8	949.7	946.5
150°	959.8	954.3	966.8	971.5	967.6
152.5°	980.8	974.6	986.3	990.9	985.5
155°	1001.1	994.1	1003.4	1008.1	1001.9
157.5°	1017.4	1011.2	1018.2	1023.7	1017.4
160°	1031.5	1026.8	1031.5	1036.1	1030.7
162.5°	1043.9	1039.2	1043.1	1048.6	1041.6
165°	1054.8	1050.2	1052.5	1057.9	1052.5
167.5°	1063.4	1058.7	1061.1	1066.5	1059.5
170°	1070.4	1065.7	1067.3	1072.7	1065.7
172.5°	1075.1	1070.4	1072.0	1077.4	1070.4
175°	1079.0	1073.5	1075.1	1080.5	1072.7
177.5°	1080.5	1075.1	1075.9	1081.3	1074.3
180°	1076.6	1076.6	1076.6	1076.6	1076.6

(END OF REPORT)