

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: P334777

Luminaire Tested: **S123IW-S1030U930-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IW-S1030U930-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1030 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3362.4 lumens
Efficiency: N/A
Efficacy: 171.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

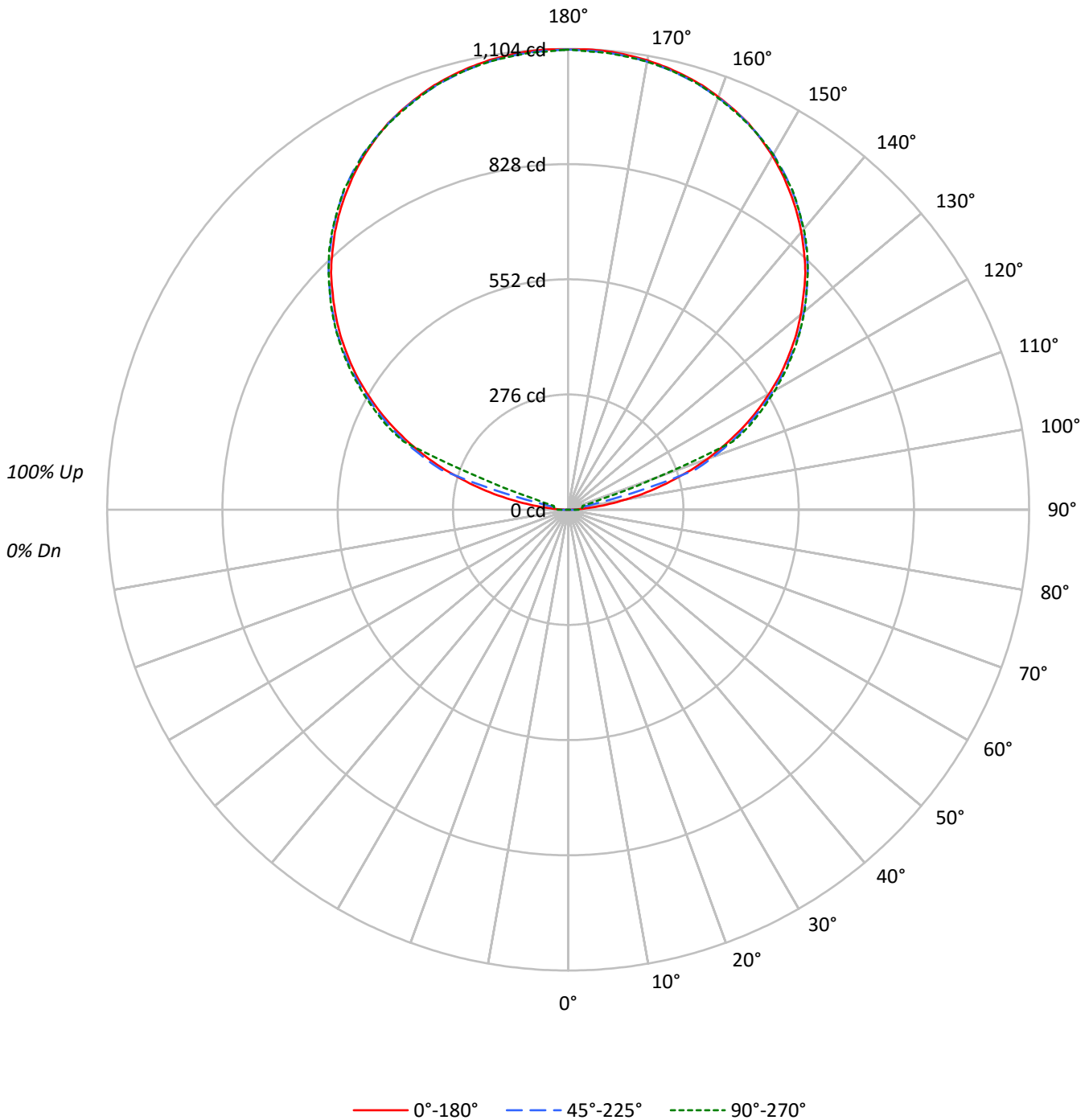
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334777

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Luminous Intensity Polar Plot





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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



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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°	2.2	0.1
90°-100°	38.9	1.2
100°-110°	187.9	5.6
110°-120°	460.5	13.7
120°-130°	584.6	17.4
130°-140°	624.5	18.6
140°-150°	584.0	17.4
150°-160°	471.0	14.0
160°-170°	304.0	9.0
170°-180°	104.8	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.2	0.1
90°-120°	687.3	20.4
90°-150°	2480.4	73.8
90°-180°	3360.0	99.9
0°-180°	3362.4	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°	1	9	20	23	25	3
95°	50	16	25	31	31	60
105°	244	253	179	34	36	259
115°	458	463	470	478	482	452
125°	645	652	655	657	658	577
135°	803	808	812	814	812	618
145°	927	933	934	936	936	580
155°	1021	1020	1020	1024	1020	471
165°	1077	1074	1074	1080	1074	304
175°	1102	1098	1099	1105	1098	105
180°	1102	1102	1102	1102	1102	



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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	9.0	19.7	22.9	24.6
92.5°	18.8	13.9	21.3	27.0	27.8
95°	50.0	16.4	25.4	31.1	31.1
97.5°	90.9	68.0	26.2	32.8	33.6
100°	138.4	154.8	27.0	33.6	34.4
102.5°	192.4	203.1	60.6	33.6	35.2
105°	244.0	253.0	179.3	34.4	36.0
107.5°	298.9	306.3	318.5	192.4	85.2
110°	353.8	360.3	369.3	342.3	225.2



TEST NUMBER: P334777

CATALOG NUMBER: S123IW-S1030U930-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	406.2	411.9	420.9	428.3	426.6
115°	457.8	462.7	470.0	478.2	481.5
117.5°	508.5	514.3	518.4	524.9	525.7
120°	555.2	562.6	565.0	571.6	571.6
122.5°	602.7	608.4	611.7	615.8	616.6
125°	645.3	651.8	655.1	656.8	658.4
127.5°	687.9	694.4	698.5	701.0	699.3
130°	727.2	733.7	737.0	740.3	738.6
132.5°	764.8	771.4	773.9	777.1	774.7
135°	803.3	808.2	811.5	814.0	811.5
137.5°	836.1	842.6	844.3	848.4	846.7
140°	868.8	873.8	876.2	879.5	877.9
142.5°	899.1	904.1	906.5	909.0	906.5
145°	927.0	932.7	934.4	936.0	936.0
147.5°	954.0	958.1	959.7	961.4	957.3
150°	978.6	981.0	982.7	984.3	981.9
152.5°	1000.7	1001.5	1002.3	1005.6	1001.5
155°	1021.2	1019.5	1020.3	1024.4	1019.5
157.5°	1037.5	1037.5	1036.7	1041.6	1035.1
160°	1052.3	1051.5	1050.6	1055.6	1049.8
162.5°	1066.2	1063.7	1062.9	1068.7	1063.7
165°	1076.8	1074.4	1073.6	1080.1	1074.4
167.5°	1085.8	1082.6	1082.6	1089.1	1082.6
170°	1093.2	1089.9	1089.9	1096.5	1089.9
172.5°	1098.1	1094.0	1094.9	1101.4	1094.0
175°	1102.2	1098.1	1099.0	1104.7	1098.1
177.5°	1103.9	1099.8	1100.6	1107.1	1099.0
180°	1102.2	1102.2	1102.2	1102.2	1102.2

(END OF REPORT)