

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: P334782

Luminaire Tested: **S123IW-S1030U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334782
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-S1030U935-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1030 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3550.9 lumens
Efficiency: N/A
Efficacy: 181.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

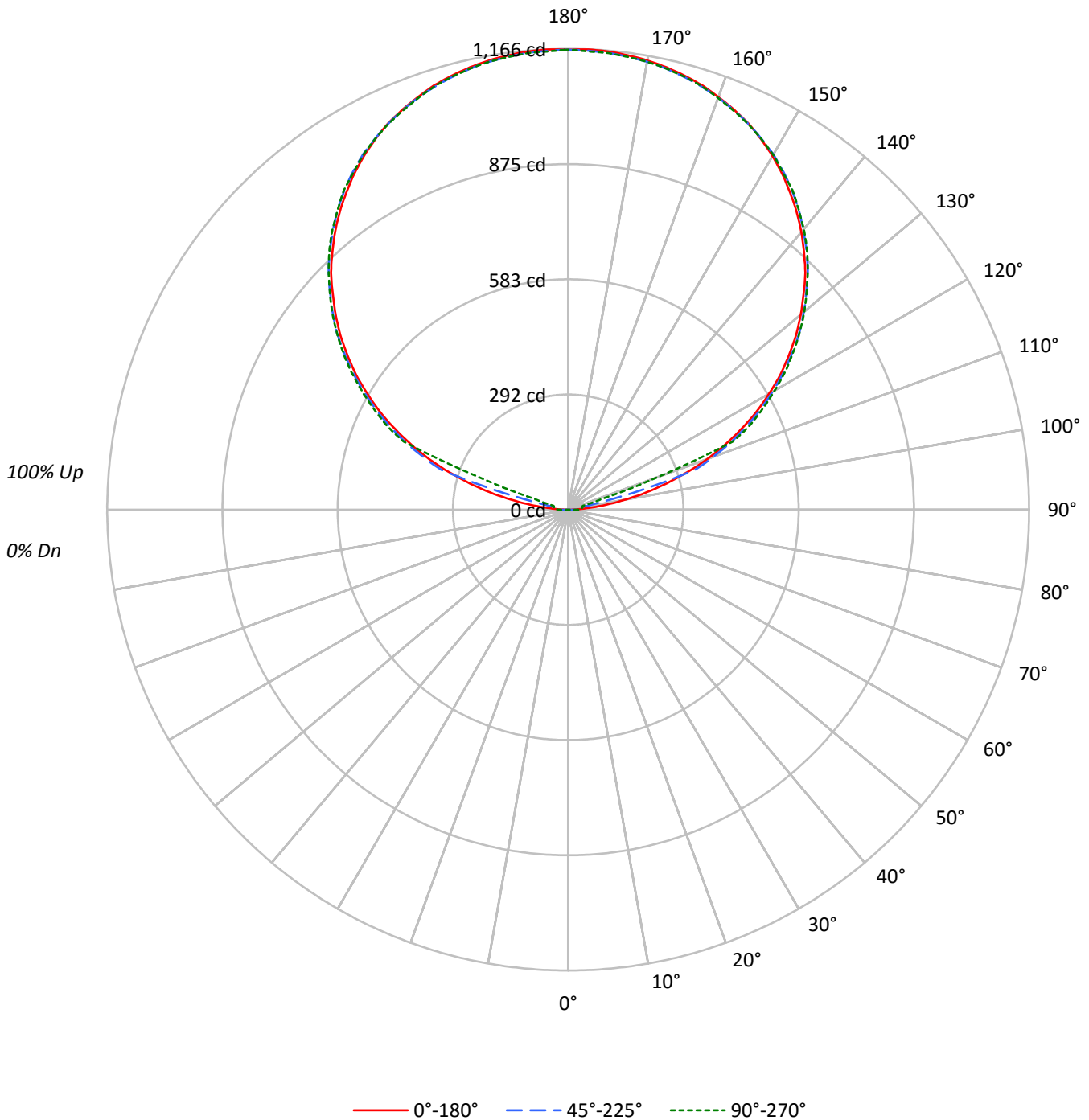
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.3	0.1
90°-100°	41.1	1.2
100°-110°	198.5	5.6
110°-120°	486.3	13.7
120°-130°	617.4	17.4
130°-140°	659.5	18.6
140°-150°	616.7	17.4
150°-160°	497.5	14.0
160°-170°	321.0	9.0
170°-180°	110.6	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.1
90°-120°	725.8	20.4
90°-150°	2619.5	73.8
90°-180°	3549.0	99.9
0°-180°	3550.9	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	10	21	24	26	3
95°	53	17	27	33	33	63
105°	258	267	189	36	38	273
115°	483	489	496	505	508	477
125°	682	688	692	694	695	609
135°	848	854	857	860	857	653
145°	979	985	987	988	988	613
155°	1078	1077	1078	1082	1077	497
165°	1137	1135	1134	1141	1135	321
175°	1164	1160	1161	1167	1160	111
180°	1164	1164	1164	1164	1164	



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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°	0.9	9.5	20.8	24.2	25.9
92.5°	19.9	14.7	22.5	28.5	29.4
95°	52.8	17.3	26.8	32.9	32.9
97.5°	96.0	71.8	27.7	34.6	35.5
100°	146.2	163.4	28.5	35.5	36.3
102.5°	203.2	214.5	64.0	35.5	37.2
105°	257.7	267.2	189.4	36.3	38.1
107.5°	315.6	323.4	336.4	203.2	89.9
110°	373.6	380.5	390.0	361.5	237.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	428.9	435.0	444.5	452.3	450.6
115°	483.4	488.6	496.4	505.0	508.5
117.5°	537.0	543.1	547.4	554.3	555.2
120°	586.3	594.1	596.7	603.6	603.6
122.5°	636.5	642.5	646.0	650.3	651.2
125°	681.5	688.4	691.8	693.6	695.3
127.5°	726.4	733.3	737.7	740.3	738.5
130°	767.9	774.9	778.3	781.8	780.0
132.5°	807.7	814.6	817.2	820.7	818.1
135°	848.4	853.6	857.0	859.6	857.0
137.5°	883.0	889.9	891.6	895.9	894.2
140°	917.5	922.7	925.3	928.8	927.1
142.5°	949.5	954.7	957.3	959.9	957.3
145°	978.9	985.0	986.7	988.5	988.5
147.5°	1007.5	1011.8	1013.5	1015.3	1010.9
150°	1033.4	1036.0	1037.8	1039.5	1036.9
152.5°	1056.8	1057.6	1058.5	1062.0	1057.6
155°	1078.4	1076.7	1077.5	1081.9	1076.7
157.5°	1095.7	1095.7	1094.8	1100.0	1093.1
160°	1111.3	1110.4	1109.5	1114.7	1108.7
162.5°	1126.0	1123.4	1122.5	1128.6	1123.4
165°	1137.2	1134.6	1133.7	1140.7	1134.6
167.5°	1146.7	1143.3	1143.3	1150.2	1143.3
170°	1154.5	1151.0	1151.0	1158.0	1151.0
172.5°	1159.7	1155.4	1156.2	1163.1	1155.4
175°	1164.0	1159.7	1160.6	1166.6	1159.7
177.5°	1165.7	1161.4	1162.3	1169.2	1160.6
180°	1164.0	1164.0	1164.0	1164.0	1164.0

(END OF REPORT)