

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: P334692

Luminaire Tested: **S123IW-S1030U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123IW-S1030U835-4F0-1E-UDD-1  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 1030 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3576.2 lumens  
Efficiency: N/A  
Efficacy: 182.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

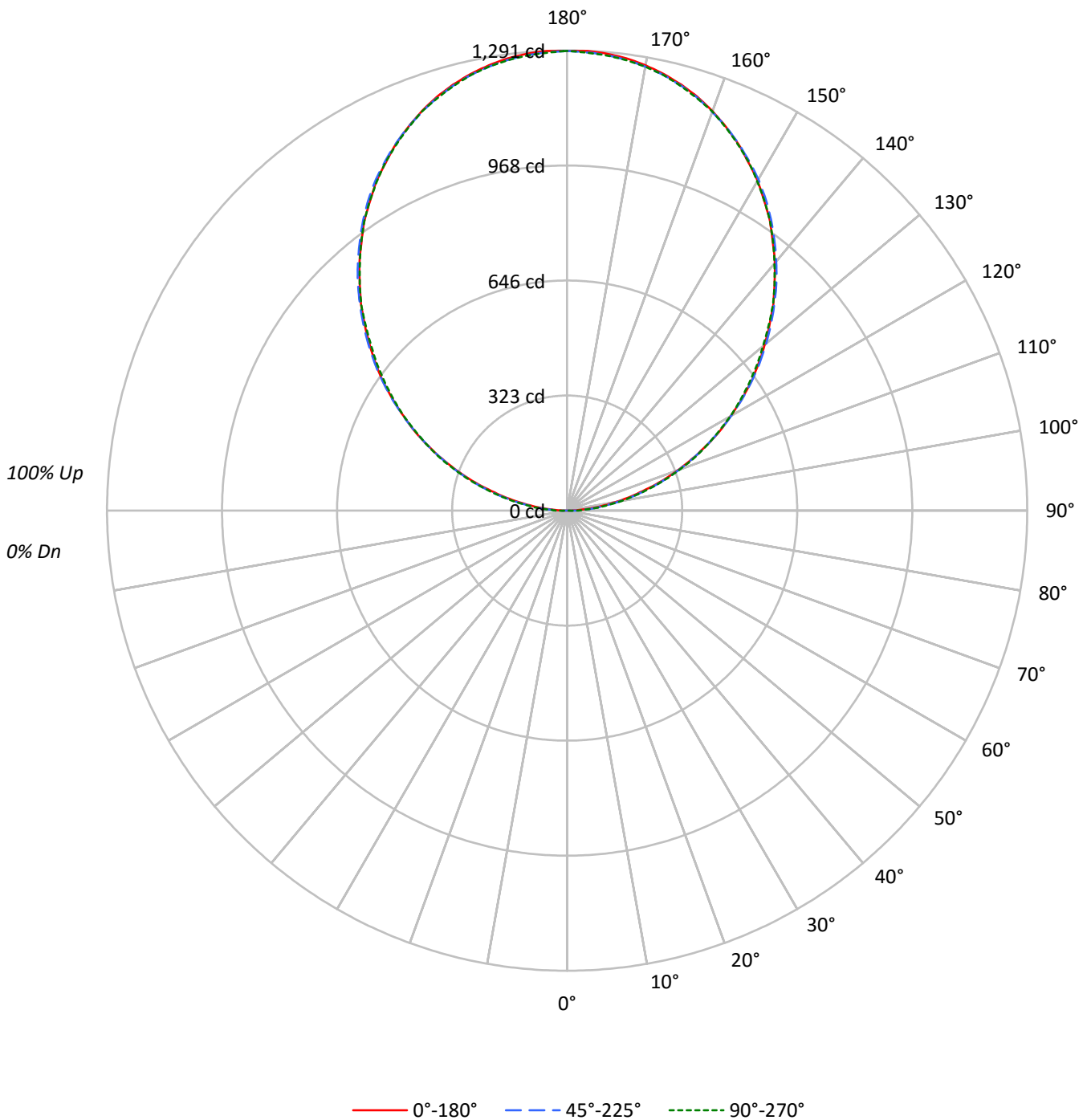
Input Watts (W): 19.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2.7	0.1
90°-100°	83.0	2.3
100°-110°	251.3	7.0
110°-120°	427.8	12.0
120°-130°	562.8	15.7
130°-140°	632.6	17.7
140°-150°	621.9	17.4
150°-160°	523.6	14.6
160°-170°	348.6	9.7
170°-180°	122.1	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.7	0.1
90°-120°	762.1	21.3
90°-150°	2579.3	72.1
90°-180°	3574.0	99.9
0°-180°	3576.2	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	11	24	28	30	4
95°	60	67	75	79	79	66
105°	228	230	239	239	241	244
115°	431	434	432	433	432	426
125°	630	633	631	627	623	562
135°	818	824	823	819	817	630
145°	992	994	997	996	992	619
155°	1136	1136	1137	1141	1134	523
165°	1237	1234	1234	1240	1233	349
175°	1287	1283	1283	1289	1282	122
180°	1290	1290	1290	1290	1290	



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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°	1.0	11.1	24.3	28.4	30.4
92.5°	30.4	36.5	42.6	45.6	43.6
95°	59.8	66.9	75.0	79.0	79.0
97.5°	98.3	103.3	109.4	114.5	113.5
100°	137.8	143.9	148.9	152.0	154.0
102.5°	183.4	186.4	193.5	196.5	195.5
105°	228.0	230.0	239.1	239.1	241.1
107.5°	280.6	281.6	285.7	288.7	287.7
110°	329.3	331.3	333.3	337.4	335.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	379.9	380.9	380.9	386.0	386.0
115°	430.6	433.6	431.6	432.6	431.6
117.5°	482.2	483.3	481.2	481.2	478.2
120°	529.9	535.9	530.9	529.9	527.8
122.5°	579.5	583.6	581.5	578.5	575.4
125°	630.2	633.2	631.2	627.1	623.1
127.5°	676.8	682.8	680.8	674.7	670.7
130°	723.4	731.5	728.4	724.4	717.3
132.5°	770.0	778.1	776.0	771.0	765.9
135°	817.6	823.7	822.6	818.6	816.6
137.5°	861.1	866.2	869.3	864.2	861.1
140°	906.7	911.8	912.8	911.8	904.7
142.5°	948.3	953.3	955.4	954.4	949.3
145°	991.8	993.9	996.9	995.9	991.8
147.5°	1029.3	1033.4	1036.4	1036.4	1030.3
150°	1068.8	1070.9	1072.9	1072.9	1066.8
152.5°	1101.3	1104.3	1105.3	1107.3	1102.3
155°	1135.7	1135.7	1136.7	1140.8	1133.7
157.5°	1165.1	1164.1	1165.1	1169.1	1163.1
160°	1192.4	1190.4	1190.4	1195.5	1191.4
162.5°	1216.8	1213.7	1214.7	1219.8	1212.7
165°	1237.0	1234.0	1234.0	1240.1	1233.0
167.5°	1254.2	1250.2	1251.2	1257.3	1251.2
170°	1268.4	1264.4	1264.4	1271.5	1264.4
172.5°	1279.6	1275.5	1275.5	1281.6	1274.5
175°	1286.7	1282.6	1282.6	1288.7	1281.6
177.5°	1290.7	1286.7	1286.7	1292.7	1285.6
180°	1289.7	1289.7	1289.7	1289.7	1289.7

(END OF REPORT)