

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: P334582

Luminaire Tested: **S122IW-S970U830-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334582  
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-S970U830-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 970 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

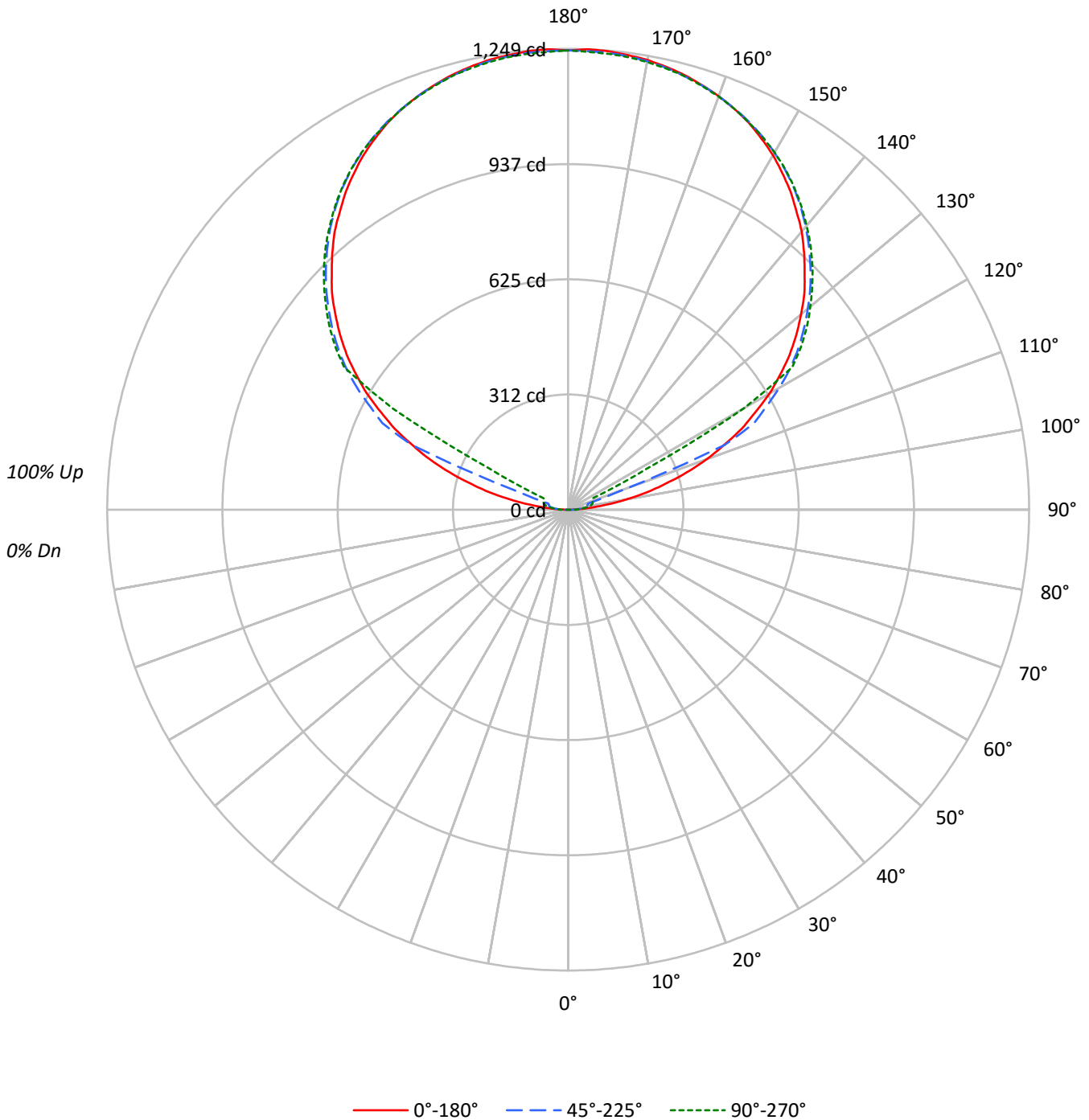
Lumens per Lamp: N/A  
Luminaire Lumens: 3651.1 lumens  
Efficiency: N/A  
Efficacy: 186.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 19.6  
Input Voltage (V): 120  
Input Current (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°	2.2	0.1
90°-100°	41.0	1.1
100°-110°	153.0	4.2
110°-120°	405.8	11.1
120°-130°	673.0	18.4
130°-140°	714.9	19.6
140°-150°	664.4	18.2
150°-160°	534.2	14.6
160°-170°	344.2	9.4
170°-180°	118.5	3.2
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°	599.8	16.4
90°-150°	2652.1	72.6
90°-180°	3649.0	99.9
0°-180°	3651.1	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	18	22	24	3
95°	58	29	35	40	39	69
105°	274	301	55	65	68	293
115°	518	533	556	139	74	510
125°	732	744	761	767	770	653
135°	906	920	928	938	936	700
145°	1051	1050	1065	1072	1067	657
155°	1157	1149	1160	1165	1158	533
165°	1220	1214	1217	1223	1217	345
175°	1247	1241	1243	1249	1240	119
180°	1245	1245	1245	1245	1245	



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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	10.8	18.0	22.5	24.3
92.5°	22.5	18.9	21.6	23.4	24.3
95°	58.5	28.8	35.1	39.6	38.7
97.5°	105.4	31.5	45.9	48.6	49.5
100°	159.4	36.0	51.3	58.5	60.3
102.5°	218.9	217.1	53.1	63.0	65.7
105°	273.8	300.8	54.9	64.8	68.4
107.5°	337.7	360.3	56.7	66.6	70.2
110°	399.0	417.9	157.6	67.5	71.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	456.6	472.8	457.5	69.3	72.1
115°	517.9	533.2	555.7	138.7	73.9
117.5°	571.0	589.0	604.3	475.5	239.6
120°	630.4	644.0	660.2	671.0	549.4
122.5°	680.9	695.3	713.3	718.7	719.6
125°	732.2	743.9	761.0	767.3	770.0
127.5°	779.0	791.7	805.2	814.2	815.1
130°	823.2	837.6	847.5	857.4	856.5
132.5°	868.2	879.9	889.8	897.9	897.0
135°	906.0	920.4	928.5	937.6	935.8
137.5°	945.7	956.5	965.5	974.5	971.8
140°	984.4	991.6	1001.5	1009.6	1005.1
142.5°	1016.8	1023.1	1034.8	1042.0	1037.5
145°	1051.0	1050.1	1065.4	1071.7	1067.2
147.5°	1080.8	1078.1	1093.4	1097.9	1094.3
150°	1109.6	1103.3	1117.7	1123.1	1118.6
152.5°	1133.9	1126.7	1140.2	1145.6	1139.3
155°	1157.3	1149.2	1160.0	1165.4	1158.2
157.5°	1176.2	1169.0	1177.1	1183.4	1176.2
160°	1192.4	1187.0	1192.4	1197.8	1191.5
162.5°	1206.8	1201.4	1205.9	1212.2	1204.1
165°	1219.5	1214.0	1216.8	1223.1	1216.8
167.5°	1229.4	1224.0	1226.7	1233.0	1224.9
170°	1237.5	1232.1	1233.9	1240.2	1232.1
172.5°	1242.9	1237.5	1239.3	1245.6	1237.5
175°	1247.4	1241.1	1242.9	1249.2	1240.2
177.5°	1249.2	1242.9	1243.8	1250.1	1242.0
180°	1244.7	1244.7	1244.7	1244.7	1244.7

(END OF REPORT)