

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: P334603

Luminaire Tested: **S122IW-S1240U930-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334603  
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-S1240U930-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1240 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

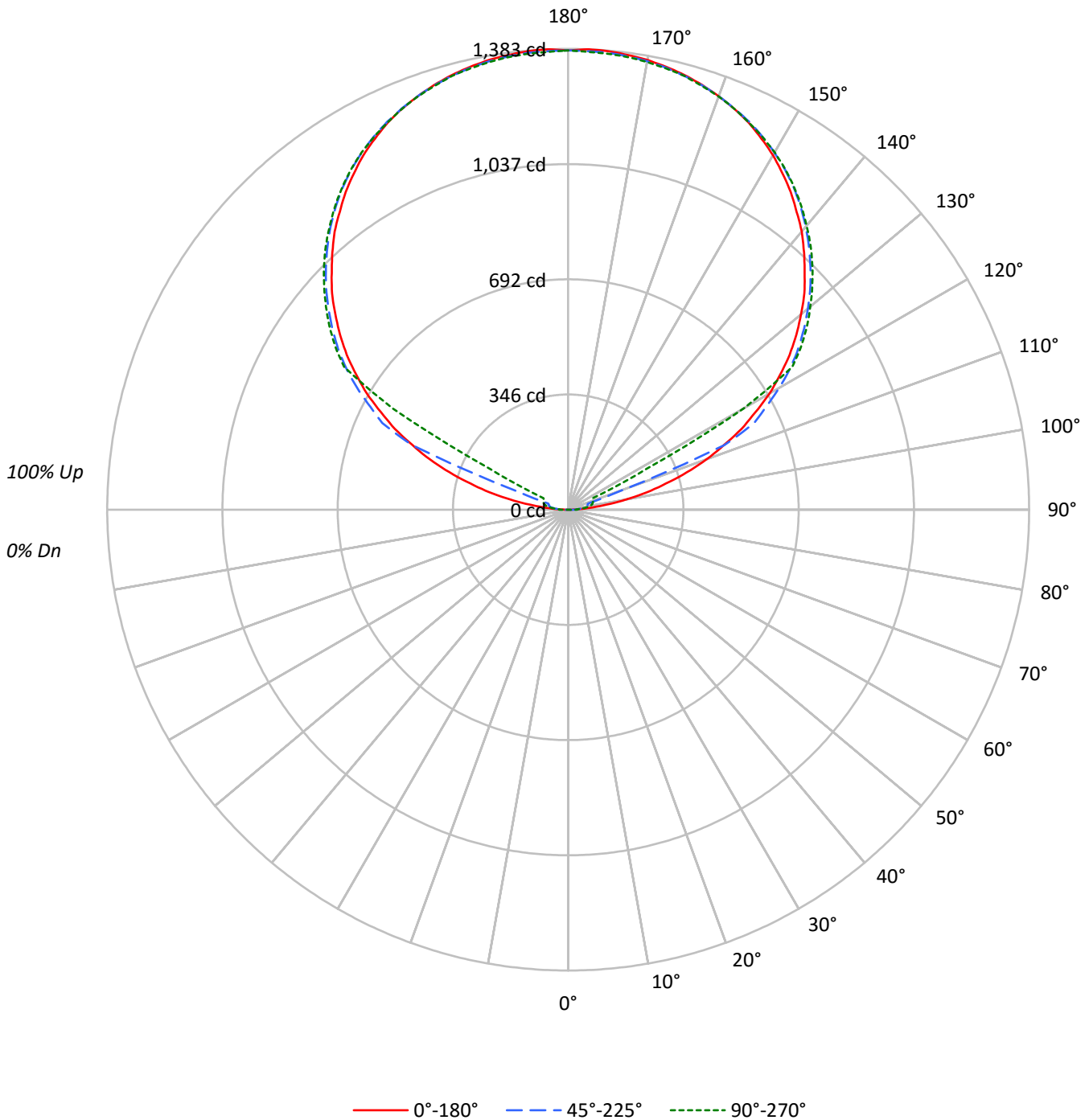
Lumens per Lamp: N/A  
Luminaire Lumens: 4043.1 lumens  
Efficiency: N/A  
Efficacy: 157.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	2.4	0.1
90°-100°	45.4	1.1
100°-110°	169.4	4.2
110°-120°	449.3	11.1
120°-130°	745.3	18.4
130°-140°	791.6	19.6
140°-150°	735.7	18.2
150°-160°	591.5	14.6
160°-170°	381.2	9.4
170°-180°	131.2	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.4	0.1
90°-120°	664.2	16.4
90°-150°	2936.8	72.6
90°-180°	4041.0	99.9
0°-180°	4043.1	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	12	20	25	27	4
95°	65	32	39	44	43	77
105°	303	333	61	72	76	324
115°	574	590	615	154	82	565
125°	811	824	843	850	853	723
135°	1003	1019	1028	1038	1036	775
145°	1164	1163	1180	1187	1182	728
155°	1282	1273	1285	1290	1283	591
165°	1350	1344	1347	1354	1347	382
175°	1381	1374	1376	1383	1373	131
180°	1378	1378	1378	1378	1378	



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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	12.0	19.9	24.9	26.9
92.5°	24.9	20.9	23.9	25.9	26.9
95°	64.8	31.9	38.9	43.9	42.9
97.5°	116.7	34.9	50.9	53.9	54.9
100°	176.5	39.9	56.8	64.8	66.8
102.5°	242.3	240.4	58.8	69.8	72.8
105°	303.2	333.1	60.8	71.8	75.8
107.5°	374.0	398.9	62.8	73.8	77.8
110°	441.8	462.8	174.5	74.8	78.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	505.6	523.6	506.6	76.8	79.8
115°	573.5	590.4	615.3	153.6	81.8
117.5°	632.3	652.2	669.2	526.6	265.3
120°	698.1	713.1	731.0	743.0	608.4
122.5°	754.0	769.9	789.9	795.9	796.9
125°	810.8	823.8	842.7	849.7	852.7
127.5°	862.7	876.6	891.6	901.6	902.6
130°	911.6	927.5	938.5	949.5	948.5
132.5°	961.4	974.4	985.4	994.3	993.3
135°	1003.3	1019.3	1028.2	1038.2	1036.2
137.5°	1047.2	1059.2	1069.1	1079.1	1076.1
140°	1090.1	1098.1	1109.0	1118.0	1113.0
142.5°	1126.0	1133.0	1145.9	1153.9	1148.9
145°	1163.9	1162.9	1179.8	1186.8	1181.8
147.5°	1196.8	1193.8	1210.7	1215.7	1211.7
150°	1228.7	1221.7	1237.7	1243.7	1238.7
152.5°	1255.6	1247.7	1262.6	1268.6	1261.6
155°	1281.6	1272.6	1284.6	1290.5	1282.6
157.5°	1302.5	1294.5	1303.5	1310.5	1302.5
160°	1320.5	1314.5	1320.5	1326.4	1319.5
162.5°	1336.4	1330.4	1335.4	1342.4	1333.4
165°	1350.4	1344.4	1347.4	1354.4	1347.4
167.5°	1361.3	1355.4	1358.4	1365.3	1356.4
170°	1370.3	1364.3	1366.3	1373.3	1364.3
172.5°	1376.3	1370.3	1372.3	1379.3	1370.3
175°	1381.3	1374.3	1376.3	1383.3	1373.3
177.5°	1383.3	1376.3	1377.3	1384.3	1375.3
180°	1378.3	1378.3	1378.3	1378.3	1378.3

(END OF REPORT)