

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: P334583

Luminaire Tested: **S122IW-S1240U830-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334583  
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-S1240U830-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1240 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4674.1 lumens  
Efficiency: N/A  
Efficacy: 181.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

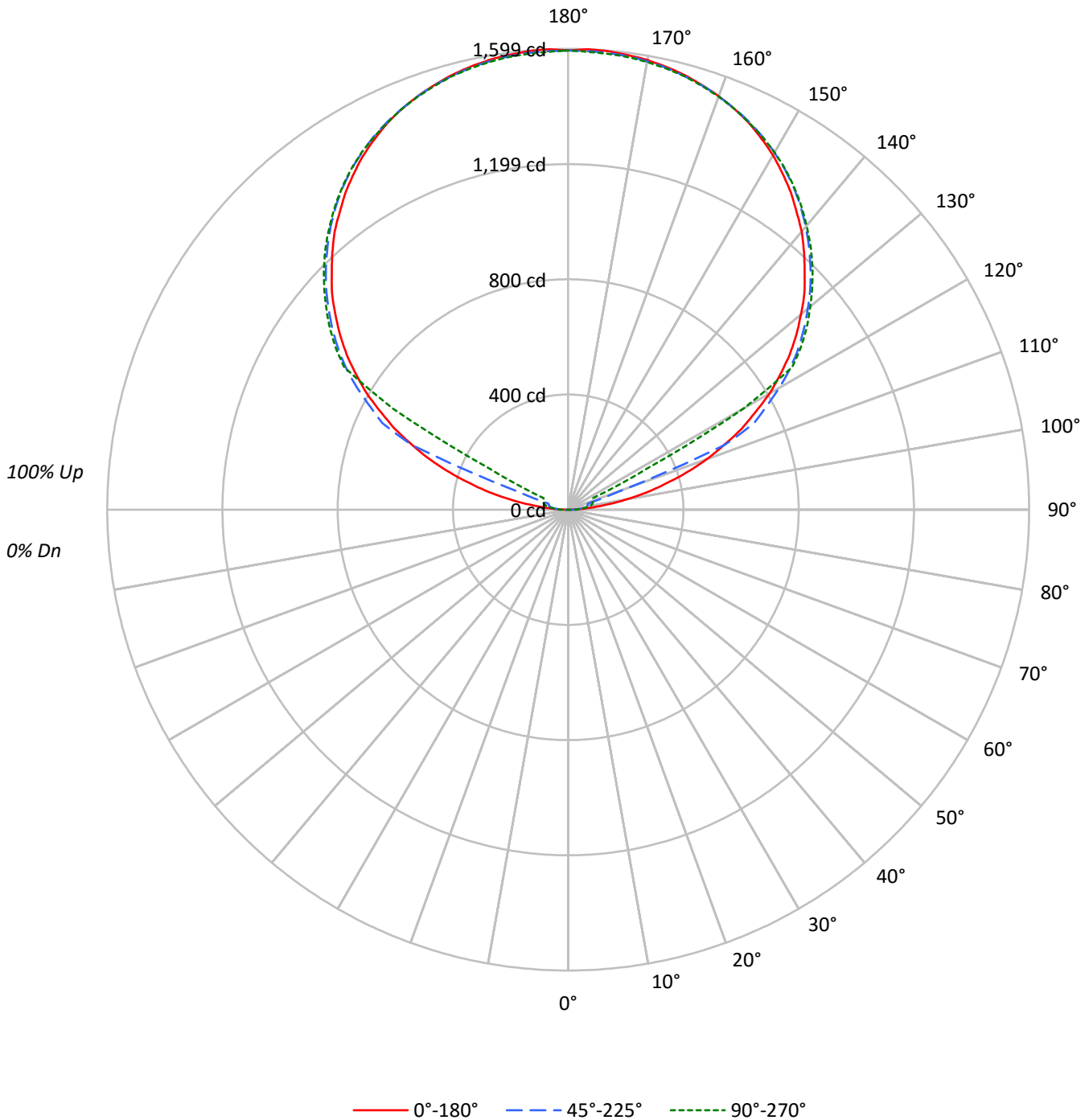
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2.8	0.1
90°-100°	52.6	1.1
100°-110°	195.9	4.2
110°-120°	519.5	11.1
120°-130°	861.6	18.4
130°-140°	915.2	19.6
140°-150°	850.6	18.2
150°-160°	683.8	14.6
160°-170°	440.6	9.4
170°-180°	151.7	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.8	0.1
90°-120°	767.9	16.4
90°-150°	3395.2	72.6
90°-180°	4671.0	99.9
0°-180°	4674.1	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	14	23	29	31	4
95°	75	37	45	51	50	89
105°	350	385	70	83	88	375
115°	663	683	711	178	94	653
125°	937	952	974	982	986	836
135°	1160	1178	1189	1200	1198	896
145°	1346	1344	1364	1372	1366	842
155°	1482	1471	1485	1492	1483	683
165°	1561	1554	1558	1566	1558	441
175°	1597	1589	1591	1599	1588	152
180°	1593	1593	1593	1593	1593	



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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°	1.2	13.8	23.1	28.8	31.1
92.5°	28.8	24.2	27.7	30.0	31.1
95°	74.9	36.9	45.0	50.7	49.6
97.5°	134.9	40.4	58.8	62.3	63.4
100°	204.1	46.1	65.7	74.9	77.2
102.5°	280.2	277.9	68.0	80.7	84.2
105°	350.5	385.1	70.3	83.0	87.6
107.5°	432.4	461.2	72.6	85.3	89.9
110°	510.8	535.0	201.8	86.5	91.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	584.6	605.3	585.7	88.8	92.2
115°	663.0	682.6	711.4	177.6	94.5
117.5°	731.0	754.0	773.6	608.8	306.7
120°	807.1	824.4	845.1	859.0	703.3
122.5°	871.6	890.1	913.2	920.1	921.2
125°	937.4	952.4	974.3	982.3	985.8
127.5°	997.3	1013.5	1030.8	1042.3	1043.4
130°	1053.8	1072.3	1084.9	1097.6	1096.5
132.5°	1111.5	1126.5	1139.1	1149.5	1148.4
135°	1159.9	1178.3	1188.7	1200.2	1197.9
137.5°	1210.6	1224.5	1236.0	1247.5	1244.1
140°	1260.2	1269.4	1282.1	1292.5	1286.7
142.5°	1301.7	1309.8	1324.8	1334.0	1328.2
145°	1345.5	1344.4	1364.0	1372.0	1366.3
147.5°	1383.6	1380.1	1399.7	1405.5	1400.9
150°	1420.5	1412.4	1430.8	1437.8	1432.0
152.5°	1451.6	1442.4	1459.7	1466.6	1458.5
155°	1481.6	1471.2	1485.0	1491.9	1482.7
157.5°	1505.8	1496.6	1506.9	1515.0	1505.8
160°	1526.5	1519.6	1526.5	1533.5	1525.4
162.5°	1545.0	1538.1	1543.8	1551.9	1541.5
165°	1561.1	1554.2	1557.7	1565.7	1557.7
167.5°	1573.8	1566.9	1570.4	1578.4	1568.0
170°	1584.2	1577.3	1579.6	1587.6	1577.3
172.5°	1591.1	1584.2	1586.5	1594.6	1584.2
175°	1596.9	1588.8	1591.1	1599.2	1587.6
177.5°	1599.2	1591.1	1592.3	1600.3	1590.0
180°	1593.4	1593.4	1593.4	1593.4	1593.4

(END OF REPORT)