

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: P334613

Luminaire Tested: **S122IW-S1240U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334613
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-S1240U940-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1240 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

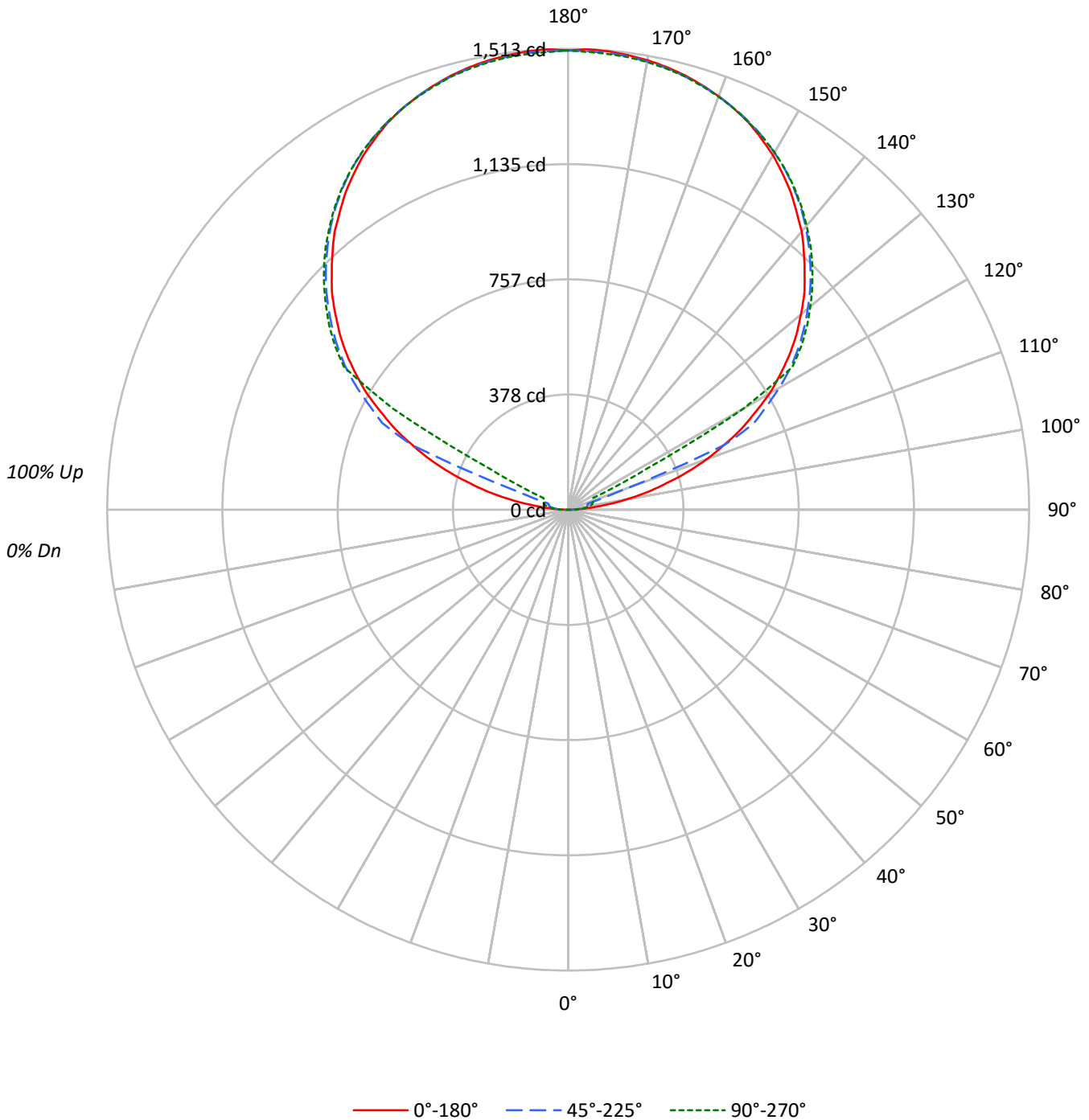
Lumens per Lamp: N/A
Luminaire Lumens: 4422.0 lumens
Efficiency: N/A
Efficacy: 172.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (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°	49.7	1.1
100°-110°	185.3	4.2
110°-120°	491.5	11.1
120°-130°	815.1	18.4
130°-140°	865.8	19.6
140°-150°	804.7	18.2
150°-160°	646.9	14.6
160°-170°	416.9	9.4
170°-180°	143.5	3.2
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°	726.5	16.4
90°-150°	3212.1	72.6
90°-180°	4419.0	99.9
0°-180°	4422.0	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	13	22	27	30	4
95°	71	35	42	48	47	84
105°	332	364	66	78	83	354
115°	627	646	673	168	89	617
125°	887	901	922	929	933	791
135°	1097	1115	1125	1136	1133	848
145°	1273	1272	1290	1298	1293	796
155°	1402	1392	1405	1412	1403	646
165°	1477	1470	1474	1481	1474	417
175°	1511	1503	1505	1513	1502	144
180°	1508	1508	1508	1508	1508	



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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°	1.1	13.1	21.8	27.3	29.5
92.5°	27.3	22.9	26.2	28.4	29.5
95°	70.9	34.9	42.5	48.0	46.9
97.5°	127.6	38.2	55.6	58.9	60.0
100°	193.1	43.6	62.2	70.9	73.1
102.5°	265.1	262.9	64.4	76.4	79.6
105°	331.6	364.3	66.5	78.5	82.9
107.5°	409.0	436.3	68.7	80.7	85.1
110°	483.2	506.1	190.9	81.8	86.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	553.0	572.7	554.1	84.0	87.3
115°	627.2	645.7	673.0	168.0	89.4
117.5°	691.6	713.4	731.9	575.9	290.2
120°	763.6	779.9	799.6	812.6	665.4
122.5°	824.6	842.1	863.9	870.5	871.5
125°	886.8	901.0	921.7	929.4	932.6
127.5°	943.5	958.8	975.2	986.1	987.2
130°	997.0	1014.4	1026.4	1038.4	1037.3
132.5°	1051.5	1065.7	1077.7	1087.5	1086.4
135°	1097.3	1114.8	1124.6	1135.5	1133.3
137.5°	1145.3	1158.4	1169.3	1180.2	1177.0
140°	1192.2	1201.0	1213.0	1222.8	1217.3
142.5°	1231.5	1239.1	1253.3	1262.0	1256.6
145°	1273.0	1271.9	1290.4	1298.0	1292.6
147.5°	1309.0	1305.7	1324.2	1329.7	1325.3
150°	1343.9	1336.2	1353.7	1360.2	1354.8
152.5°	1373.3	1364.6	1380.9	1387.5	1379.9
155°	1401.7	1391.9	1404.9	1411.5	1402.8
157.5°	1424.6	1415.9	1425.7	1433.3	1424.6
160°	1444.2	1437.7	1444.2	1450.8	1443.1
162.5°	1461.7	1455.1	1460.6	1468.2	1458.4
165°	1476.9	1470.4	1473.7	1481.3	1473.7
167.5°	1488.9	1482.4	1485.7	1493.3	1483.5
170°	1498.8	1492.2	1494.4	1502.0	1492.2
172.5°	1505.3	1498.8	1500.9	1508.6	1498.8
175°	1510.7	1503.1	1505.3	1512.9	1502.0
177.5°	1512.9	1505.3	1506.4	1514.0	1504.2
180°	1507.5	1507.5	1507.5	1507.5	1507.5

(END OF REPORT)