

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: P334593

Luminaire Tested: **S122IW-S1240U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334593
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-S1240U840-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1240 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5008.0 lumens
Efficiency: N/A
Efficacy: 194.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

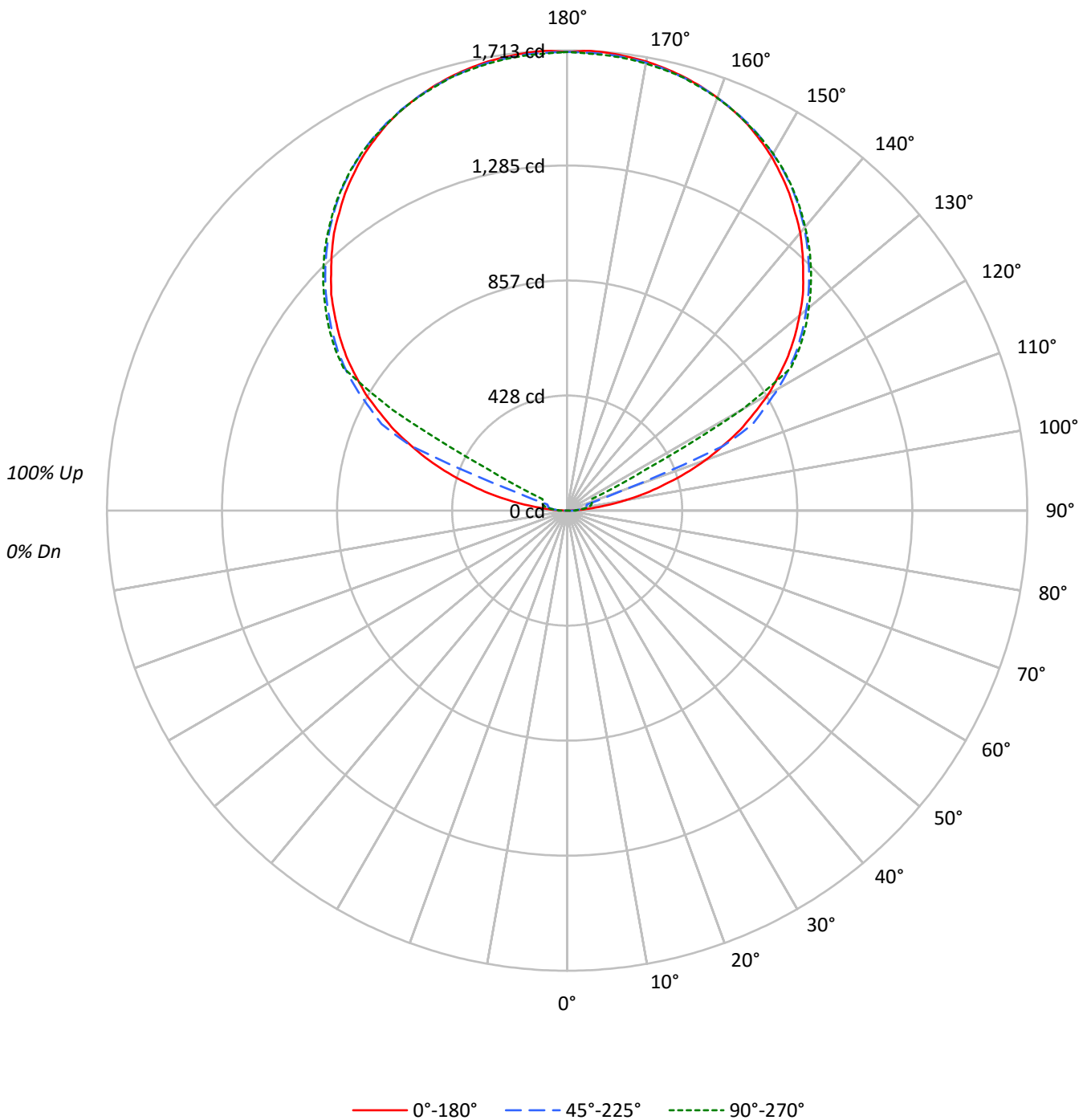
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.0	0.1
90°-100°	56.3	1.1
100°-110°	209.8	4.2
110°-120°	556.6	11.1
120°-130°	923.1	18.4
130°-140°	980.5	19.6
140°-150°	911.3	18.2
150°-160°	732.7	14.6
160°-170°	472.1	9.4
170°-180°	162.5	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.0	0.1
90°-120°	822.7	16.4
90°-150°	3637.7	72.6
90°-180°	5005.0	99.9
0°-180°	5008.0	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	15	25	31	33	5
95°	80	40	48	54	53	95
105°	376	413	75	89	94	401
115°	710	731	762	190	101	699
125°	1004	1020	1044	1052	1056	896
135°	1243	1262	1274	1286	1284	960
145°	1442	1440	1461	1470	1464	902
155°	1587	1576	1591	1598	1589	731
165°	1673	1665	1669	1678	1669	473
175°	1711	1702	1705	1713	1701	163
180°	1707	1707	1707	1707	1707	



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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	14.8	24.7	30.9	33.4
92.5°	30.9	25.9	29.6	32.1	33.4
95°	80.3	39.5	48.2	54.4	53.1
97.5°	144.5	43.2	63.0	66.7	67.9
100°	218.7	49.4	70.4	80.3	82.8
102.5°	300.2	297.7	72.9	86.5	90.2
105°	375.5	412.6	75.4	88.9	93.9
107.5°	463.2	494.1	77.8	91.4	96.4
110°	547.2	573.2	216.2	92.6	97.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	626.3	648.5	627.5	95.1	98.8
115°	710.3	731.3	762.2	190.2	101.3
117.5°	783.2	807.9	828.9	652.3	328.6
120°	864.7	883.3	905.5	920.3	753.5
122.5°	933.9	953.7	978.4	985.8	987.0
125°	1004.3	1020.4	1043.9	1052.5	1056.2
127.5°	1068.6	1085.9	1104.4	1116.7	1118.0
130°	1129.1	1148.9	1162.4	1176.0	1174.8
132.5°	1190.9	1206.9	1220.5	1231.6	1230.4
135°	1242.7	1262.5	1273.6	1286.0	1283.5
137.5°	1297.1	1311.9	1324.3	1336.6	1332.9
140°	1350.2	1360.1	1373.7	1384.8	1378.6
142.5°	1394.7	1403.3	1419.4	1429.3	1423.1
145°	1441.6	1440.4	1461.4	1470.0	1463.9
147.5°	1482.4	1478.7	1499.7	1505.9	1500.9
150°	1521.9	1513.3	1533.0	1540.5	1534.3
152.5°	1555.3	1545.4	1563.9	1571.3	1562.7
155°	1587.4	1576.3	1591.1	1598.5	1588.6
157.5°	1613.3	1603.5	1614.6	1623.2	1613.3
160°	1635.6	1628.2	1635.6	1643.0	1634.3
162.5°	1655.3	1647.9	1654.1	1662.8	1651.6
165°	1672.6	1665.2	1668.9	1677.6	1668.9
167.5°	1686.2	1678.8	1682.5	1691.2	1680.0
170°	1697.3	1689.9	1692.4	1701.0	1689.9
172.5°	1704.8	1697.3	1699.8	1708.5	1697.3
175°	1710.9	1702.3	1704.8	1713.4	1701.0
177.5°	1713.4	1704.8	1706.0	1714.6	1703.5
180°	1707.2	1707.2	1707.2	1707.2	1707.2

(END OF REPORT)