

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: P334588

Luminaire Tested: **S122IW-S1240U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334588
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-S1240U835-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1240 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4959.1 lumens
Efficiency: N/A
Efficacy: 193.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

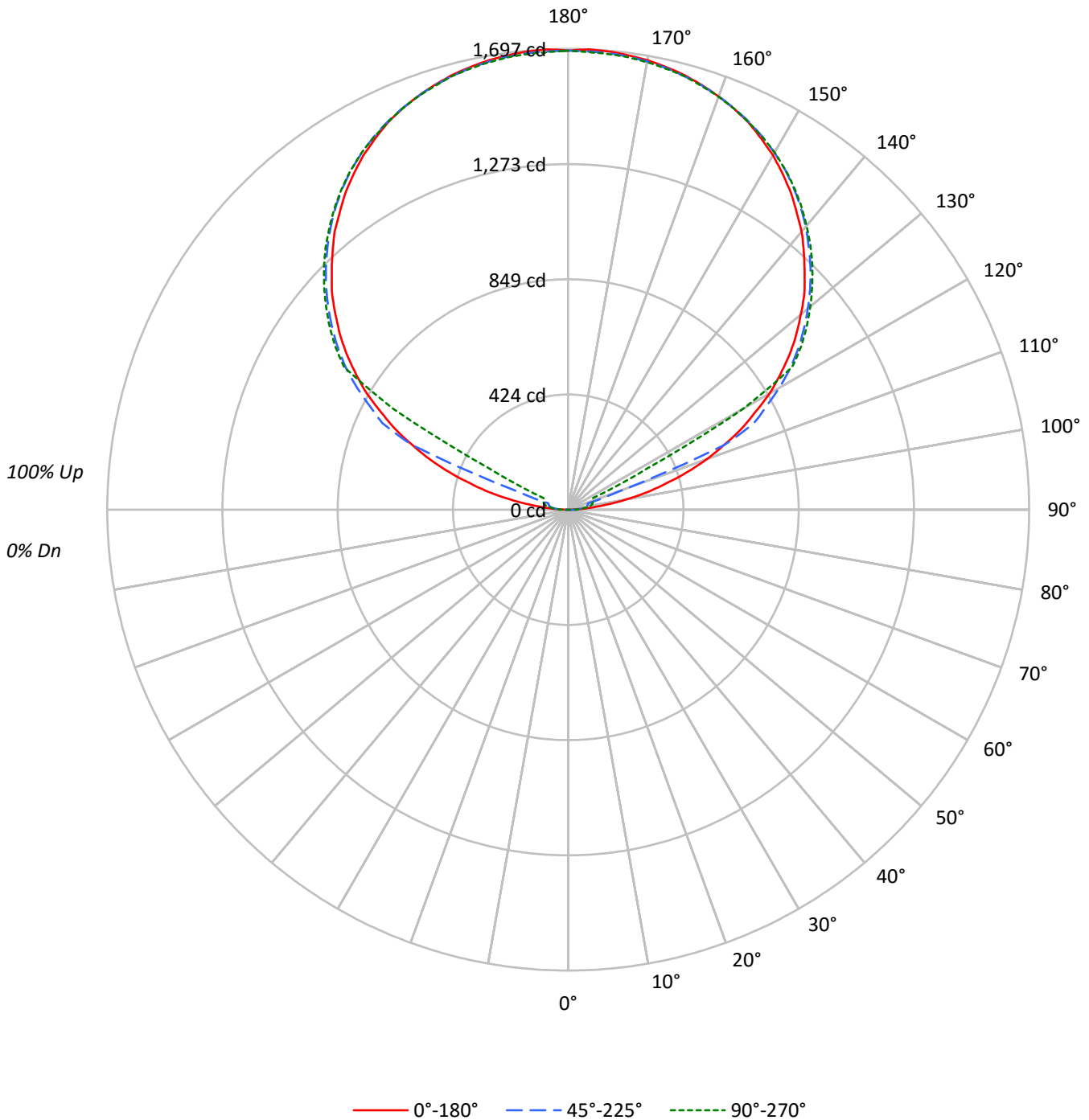
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	55.8	1.1
100°-110°	207.8	4.2
110°-120°	551.1	11.1
120°-130°	914.1	18.4
130°-140°	971.0	19.6
140°-150°	902.4	18.2
150°-160°	725.5	14.6
160°-170°	467.5	9.4
170°-180°	160.9	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°	814.7	16.4
90°-150°	3602.2	72.6
90°-180°	4956.0	99.9
0°-180°	4959.1	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	15	24	31	33	5
95°	80	39	48	54	53	94
105°	372	409	75	88	93	397
115°	703	724	755	188	100	692
125°	994	1010	1034	1042	1046	887
135°	1231	1250	1261	1273	1271	951
145°	1428	1426	1447	1456	1450	893
155°	1572	1561	1576	1583	1573	724
165°	1656	1649	1653	1661	1653	468
175°	1694	1686	1688	1697	1684	161
180°	1690	1690	1690	1690	1690	



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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	14.7	24.5	30.6	33.0
92.5°	30.6	25.7	29.4	31.8	33.0
95°	79.5	39.1	47.7	53.8	52.6
97.5°	143.1	42.8	62.4	66.1	67.3
100°	216.5	48.9	69.7	79.5	82.0
102.5°	297.3	294.8	72.2	85.6	89.3
105°	371.9	408.6	74.6	88.1	93.0
107.5°	458.7	489.3	77.1	90.5	95.4
110°	541.9	567.6	214.1	91.7	96.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	620.2	642.2	621.4	94.2	97.9
115°	703.4	724.2	754.8	188.4	100.3
117.5°	775.5	800.0	820.8	645.9	325.4
120°	856.3	874.6	896.6	911.3	746.2
122.5°	924.8	944.4	968.8	976.2	977.4
125°	994.5	1010.4	1033.7	1042.2	1045.9
127.5°	1058.1	1075.2	1093.6	1105.8	1107.0
130°	1118.1	1137.6	1151.1	1164.5	1163.3
132.5°	1179.2	1195.1	1208.6	1219.6	1218.4
135°	1230.6	1250.2	1261.2	1273.4	1271.0
137.5°	1284.4	1299.1	1311.3	1323.6	1319.9
140°	1337.0	1346.8	1360.3	1371.3	1365.2
142.5°	1381.1	1389.6	1405.5	1415.3	1409.2
145°	1427.5	1426.3	1447.1	1455.7	1449.6
147.5°	1467.9	1464.2	1485.0	1491.2	1486.3
150°	1507.1	1498.5	1518.1	1525.4	1519.3
152.5°	1540.1	1530.3	1548.6	1556.0	1547.4
155°	1571.9	1560.9	1575.6	1582.9	1573.1
157.5°	1597.6	1587.8	1598.8	1607.4	1597.6
160°	1619.6	1612.3	1619.6	1626.9	1618.4
162.5°	1639.2	1631.8	1637.9	1646.5	1635.5
165°	1656.3	1649.0	1652.6	1661.2	1652.6
167.5°	1669.7	1662.4	1666.1	1674.6	1663.6
170°	1680.8	1673.4	1675.9	1684.4	1673.4
172.5°	1688.1	1680.8	1683.2	1691.8	1680.8
175°	1694.2	1685.7	1688.1	1696.7	1684.4
177.5°	1696.7	1688.1	1689.3	1697.9	1686.9
180°	1690.5	1690.5	1690.5	1690.5	1690.5

(END OF REPORT)