

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: P334609

Luminaire Tested: **S122IW-S1440U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334609
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-S1440U935-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1440 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4964.3 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

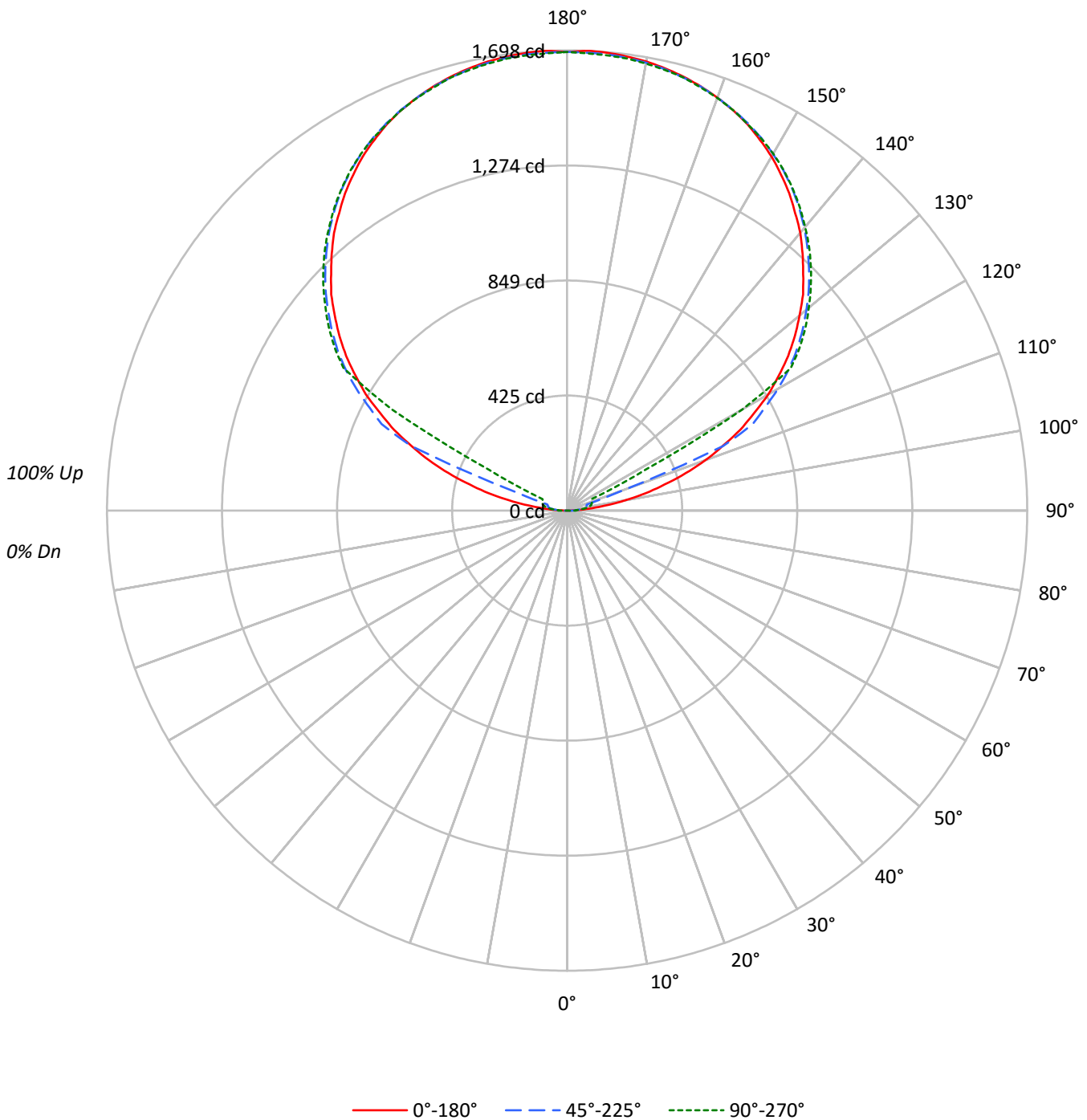
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	208.0	4.2
110°-120°	551.7	11.1
120°-130°	915.1	18.4
130°-140°	972.0	19.6
140°-150°	903.4	18.2
150°-160°	726.3	14.6
160°-170°	468.0	9.4
170°-180°	161.1	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°	815.6	16.4
90°-150°	3606.0	72.6
90°-180°	4961.0	99.9
0°-180°	4964.3	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	398
115°	704	725	756	189	100	693
125°	996	1012	1035	1043	1047	888
135°	1232	1252	1262	1275	1272	952
145°	1429	1428	1449	1457	1451	894
155°	1574	1562	1577	1585	1575	725
165°	1658	1651	1654	1663	1654	468
175°	1696	1687	1690	1698	1686	161
180°	1692	1692	1692	1692	1692	



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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	33.1
92.5°	30.6	25.7	29.4	31.8	33.1
95°	79.6	39.2	47.8	53.9	52.7
97.5°	143.3	42.9	62.5	66.1	67.4
100°	216.7	49.0	69.8	79.6	82.0
102.5°	297.6	295.1	72.2	85.7	89.4
105°	372.3	409.0	74.7	88.2	93.1
107.5°	459.2	489.8	77.1	90.6	95.5
110°	542.5	568.2	214.3	91.8	96.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	620.8	642.9	622.1	94.3	98.0
115°	704.1	724.9	755.5	188.6	100.4
117.5°	776.4	800.9	821.7	646.6	325.7
120°	857.2	875.6	897.6	912.3	747.0
122.5°	925.8	945.4	969.8	977.2	978.4
125°	995.6	1011.5	1034.7	1043.3	1047.0
127.5°	1059.2	1076.4	1094.7	1107.0	1108.2
130°	1119.2	1138.8	1152.3	1165.8	1164.5
132.5°	1180.5	1196.4	1209.9	1220.9	1219.6
135°	1231.9	1251.5	1262.5	1274.8	1272.3
137.5°	1285.8	1300.5	1312.7	1325.0	1321.3
140°	1338.4	1348.2	1361.7	1372.7	1366.6
142.5°	1382.5	1391.1	1407.0	1416.8	1410.7
145°	1429.0	1427.8	1448.6	1457.2	1451.1
147.5°	1469.5	1465.8	1486.6	1492.7	1487.8
150°	1508.6	1500.1	1519.7	1527.0	1520.9
152.5°	1541.7	1531.9	1550.3	1557.6	1549.1
155°	1573.5	1562.5	1577.2	1584.6	1574.8
157.5°	1599.3	1589.5	1600.5	1609.1	1599.3
160°	1621.3	1614.0	1621.3	1628.6	1620.1
162.5°	1640.9	1633.5	1639.7	1648.2	1637.2
165°	1658.0	1650.7	1654.4	1662.9	1654.4
167.5°	1671.5	1664.2	1667.8	1676.4	1665.4
170°	1682.5	1675.2	1677.6	1686.2	1675.2
172.5°	1689.9	1682.5	1685.0	1693.5	1682.5
175°	1696.0	1687.4	1689.9	1698.4	1686.2
177.5°	1698.4	1689.9	1691.1	1699.7	1688.7
180°	1692.3	1692.3	1692.3	1692.3	1692.3

(END OF REPORT)