

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: P334614

Luminaire Tested: **S122IW-S1440U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334614
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-S1440U940-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1440 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5141.4 lumens
Efficiency: N/A
Efficacy: 168.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

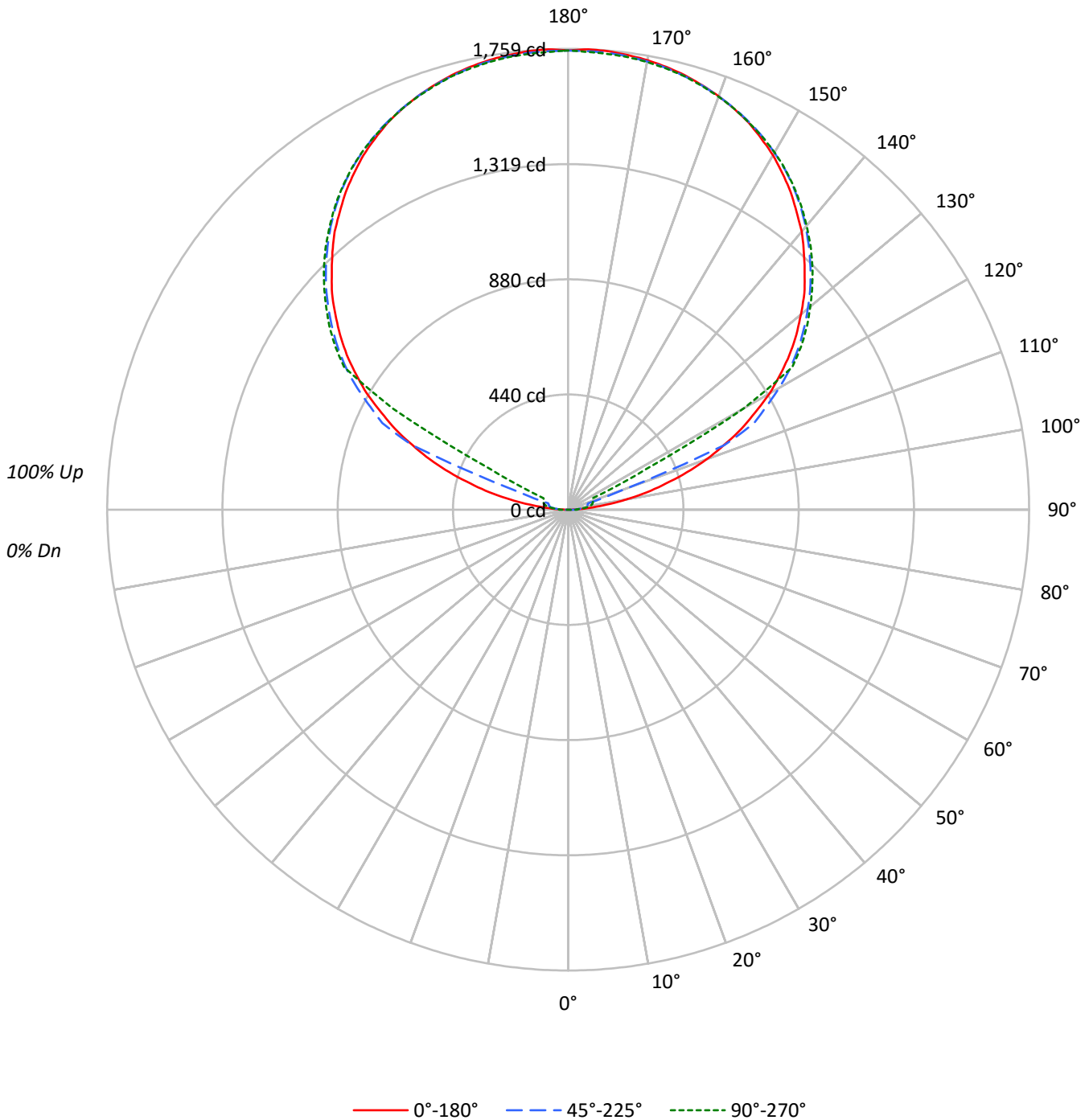
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.1	0.1
90°-100°	57.8	1.1
100°-110°	215.4	4.2
110°-120°	571.4	11.1
120°-130°	947.7	18.4
130°-140°	1006.7	19.6
140°-150°	935.6	18.2
150°-160°	752.2	14.6
160°-170°	484.7	9.4
170°-180°	166.8	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.1	0.1
90°-120°	844.6	16.4
90°-150°	3734.6	72.6
90°-180°	5138.0	99.9
0°-180°	5141.4	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	32	34	5
95°	82	41	50	56	54	98
105°	386	424	77	91	96	412
115°	729	751	782	195	104	718
125°	1031	1048	1072	1080	1084	920
135°	1276	1296	1308	1320	1318	986
145°	1480	1479	1500	1509	1503	926
155°	1630	1618	1634	1641	1631	751
165°	1717	1710	1713	1722	1713	485
175°	1756	1748	1750	1759	1746	167
180°	1753	1753	1753	1753	1753	



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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°	1.3	15.2	25.4	31.7	34.2
92.5°	31.7	26.6	30.4	33.0	34.2
95°	82.4	40.6	49.5	55.8	54.5
97.5°	148.4	44.4	64.7	68.5	69.8
100°	224.5	50.7	72.3	82.4	85.0
102.5°	308.2	305.6	74.8	88.8	92.6
105°	385.5	423.6	77.4	91.3	96.4
107.5°	475.6	507.3	79.9	93.8	98.9
110°	561.8	588.5	221.9	95.1	100.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	643.0	665.8	644.3	97.7	101.5
115°	729.2	750.8	782.5	195.3	104.0
117.5°	804.1	829.4	851.0	669.6	337.3
120°	887.8	906.8	929.6	944.8	773.6
122.5°	958.8	979.1	1004.4	1012.0	1013.3
125°	1031.1	1047.6	1071.7	1080.5	1084.3
127.5°	1097.0	1114.8	1133.8	1146.5	1147.7
130°	1159.2	1179.4	1193.4	1207.4	1206.1
132.5°	1222.6	1239.1	1253.0	1264.4	1263.2
135°	1275.8	1296.1	1307.5	1320.2	1317.7
137.5°	1331.6	1346.9	1359.5	1372.2	1368.4
140°	1386.2	1396.3	1410.3	1421.7	1415.3
142.5°	1431.8	1440.7	1457.2	1467.3	1461.0
145°	1480.0	1478.8	1500.3	1509.2	1502.8
147.5°	1521.9	1518.1	1539.6	1546.0	1540.9
150°	1562.5	1553.6	1573.9	1581.5	1575.1
152.5°	1596.7	1586.5	1605.6	1613.2	1604.3
155°	1629.7	1618.3	1633.5	1641.1	1630.9
157.5°	1656.3	1646.2	1657.6	1666.4	1656.3
160°	1679.1	1671.5	1679.1	1686.7	1677.9
162.5°	1699.4	1691.8	1698.2	1707.0	1695.6
165°	1717.2	1709.6	1713.4	1722.2	1713.4
167.5°	1731.1	1723.5	1727.3	1736.2	1724.8
170°	1742.5	1734.9	1737.5	1746.3	1734.9
172.5°	1750.2	1742.5	1745.1	1754.0	1742.5
175°	1756.5	1747.6	1750.2	1759.0	1746.3
177.5°	1759.0	1750.2	1751.4	1760.3	1748.9
180°	1752.7	1752.7	1752.7	1752.7	1752.7

(END OF REPORT)