

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: P334943

Luminaire Tested: **S124IW-S1340U840-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124IW-S1340U840-4F0-1E-UDD  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1340 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5422.7 lumens  
Efficiency: N/A  
Efficacy: 211.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

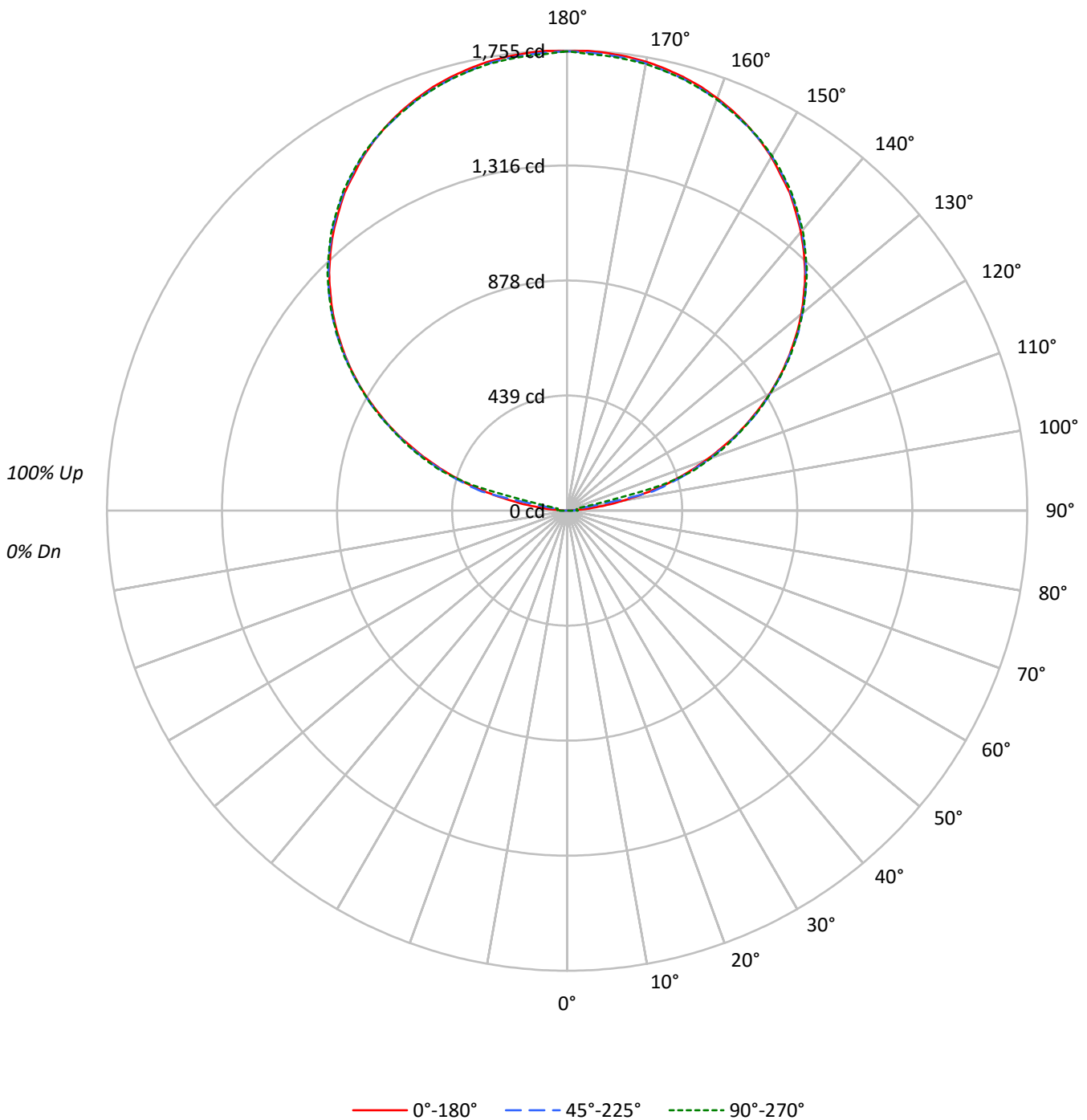
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3.6	0.1
90°-100°	58.1	1.1
100°-110°	382.8	7.1
110°-120°	731.1	13.5
120°-130°	928.0	17.1
130°-140°	992.8	18.3
140°-150°	928.4	17.1
150°-160°	748.6	13.8
160°-170°	482.8	8.9
170°-180°	166.4	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.6	0.1
90°-120°	1172.0	21.6
90°-150°	4021.2	74.2
90°-180°	5419.0	99.9
0°-180°	5422.7	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°	4	18	29	37	39	4
95°	72	28	29	37	38	89
105°	394	402	409	420	373	413
115°	736	740	739	741	741	725
125°	1035	1040	1037	1041	1043	924
135°	1284	1282	1288	1290	1293	989
145°	1480	1484	1484	1485	1488	925
155°	1623	1624	1620	1626	1622	748
165°	1712	1705	1705	1716	1704	484
175°	1751	1743	1745	1756	1741	167
180°	1751	1751	1751	1751	1751	



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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°	3.9	18.3	28.8	36.7	39.3
92.5°	19.6	17.0	27.5	35.4	35.4
95°	72.0	27.5	28.8	36.7	38.0
97.5°	137.5	166.4	28.8	35.4	36.7
100°	214.8	238.4	57.6	35.4	36.7
102.5°	301.3	317.0	332.7	38.0	38.0
105°	394.3	402.1	408.7	420.5	373.3
107.5°	479.4	483.3	492.5	499.1	504.3
110°	565.9	569.8	577.6	580.3	584.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	649.7	657.5	660.2	658.9	664.1
115°	736.1	740.1	738.8	741.4	741.4
117.5°	813.4	818.7	822.6	821.3	821.3
120°	892.0	897.2	895.9	898.6	895.9
122.5°	965.4	968.0	970.6	971.9	969.3
125°	1034.8	1040.0	1037.4	1041.3	1042.6
127.5°	1101.6	1102.9	1109.4	1108.1	1106.8
130°	1165.8	1167.1	1171.0	1172.3	1172.3
132.5°	1224.7	1227.3	1232.6	1233.9	1232.6
135°	1283.7	1282.3	1287.6	1290.2	1292.8
137.5°	1336.0	1336.0	1342.6	1345.2	1343.9
140°	1387.1	1389.8	1392.4	1396.3	1397.6
142.5°	1433.0	1438.2	1439.5	1442.1	1442.1
145°	1480.1	1484.1	1484.1	1485.4	1488.0
147.5°	1516.8	1524.7	1523.4	1524.7	1526.0
150°	1557.4	1562.7	1561.3	1561.3	1562.7
152.5°	1591.5	1595.4	1592.8	1595.4	1594.1
155°	1622.9	1624.2	1620.3	1625.5	1621.6
157.5°	1650.4	1650.4	1645.2	1651.7	1645.2
160°	1674.0	1670.1	1668.8	1676.6	1668.8
162.5°	1694.9	1689.7	1688.4	1696.3	1687.1
165°	1712.0	1705.4	1705.4	1715.9	1704.1
167.5°	1726.4	1719.8	1718.5	1730.3	1717.2
170°	1738.2	1730.3	1731.6	1742.1	1729.0
172.5°	1746.0	1738.2	1739.5	1750.0	1735.6
175°	1751.3	1743.4	1744.7	1756.5	1740.8
177.5°	1755.2	1746.0	1748.7	1759.1	1743.4
180°	1751.3	1751.3	1751.3	1751.3	1751.3

(END OF REPORT)