

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: P334963

Luminaire Tested: **S124IW-S1340U940-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334963  
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-S1340U940-4F0-1E-UDD  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1340 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4788.2 lumens  
Efficiency: N/A  
Efficacy: 186.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

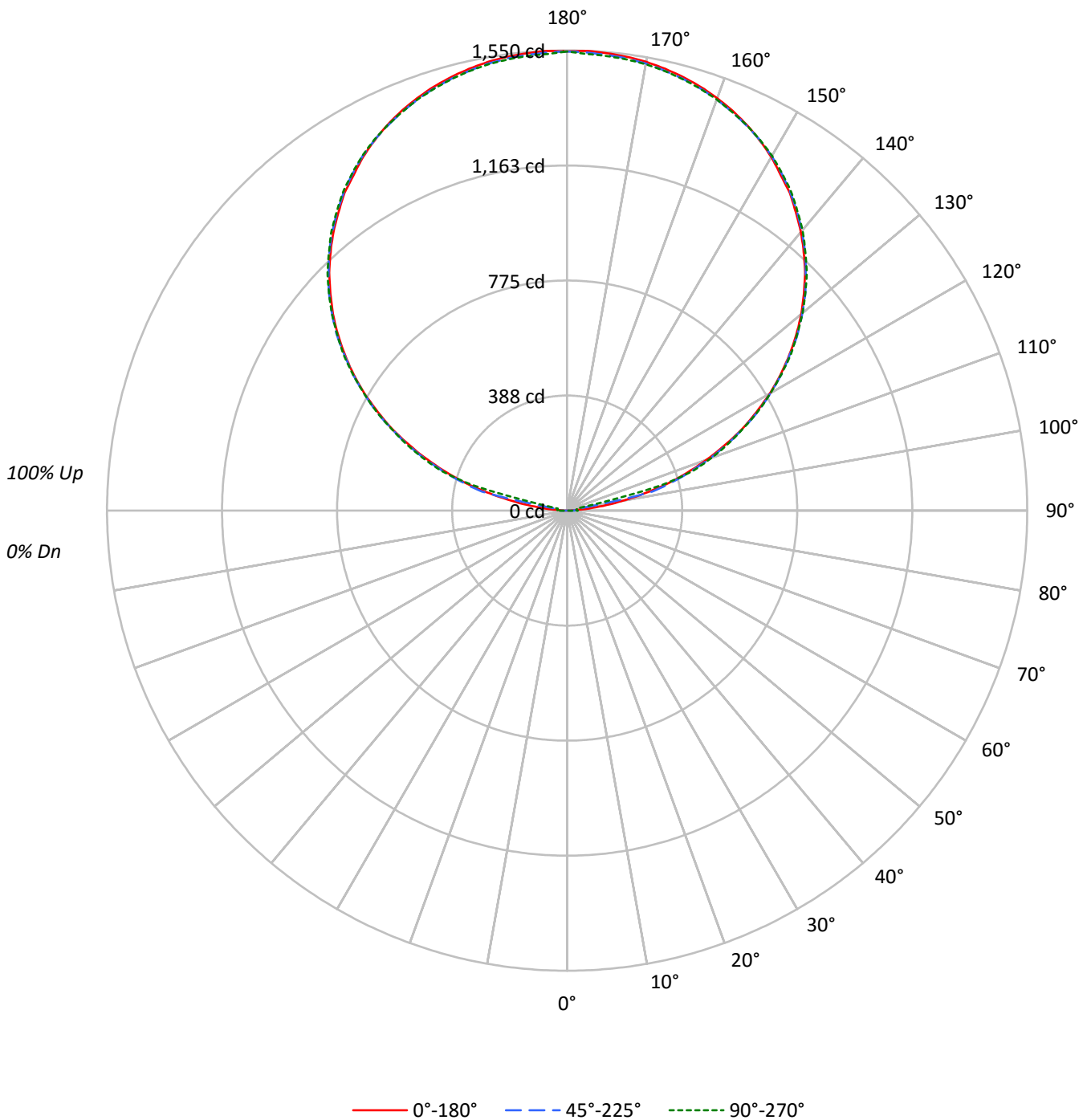
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3.2	0.1
90°-100°	51.3	1.1
100°-110°	338.1	7.1
110°-120°	645.5	13.5
120°-130°	819.5	17.1
130°-140°	876.6	18.3
140°-150°	819.7	17.1
150°-160°	661.0	13.8
160°-170°	426.3	8.9
170°-180°	146.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.2	0.1
90°-120°	1034.9	21.6
90°-150°	3550.7	74.2
90°-180°	4785.0	99.9
0°-180°	4788.2	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	16	25	32	35	3
95°	64	24	25	32	34	78
105°	348	355	361	371	330	364
115°	650	654	652	655	655	640
125°	914	918	916	920	921	816
135°	1134	1132	1137	1139	1142	873
145°	1307	1310	1310	1312	1314	817
155°	1433	1434	1431	1435	1432	661
165°	1512	1506	1506	1515	1505	427
175°	1546	1539	1541	1551	1537	147
180°	1546	1546	1546	1546	1546	



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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°	3.5	16.2	25.4	32.4	34.7
92.5°	17.3	15.0	24.3	31.2	31.2
95°	63.6	24.3	25.4	32.4	33.5
97.5°	121.4	146.9	25.4	31.2	32.4
100°	189.7	210.5	50.9	31.2	32.4
102.5°	266.0	279.9	293.8	33.5	33.5
105°	348.1	355.1	360.9	371.3	329.6
107.5°	423.3	426.8	434.9	440.7	445.3
110°	499.7	503.1	510.1	512.4	515.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	573.7	580.6	582.9	581.8	586.4
115°	650.0	653.5	652.3	654.6	654.6
117.5°	718.2	722.9	726.3	725.2	725.2
120°	787.6	792.3	791.1	793.4	791.1
122.5°	852.4	854.7	857.0	858.2	855.9
125°	913.7	918.3	916.0	919.5	920.7
127.5°	972.7	973.9	979.6	978.5	977.3
130°	1029.4	1030.5	1034.0	1035.2	1035.2
132.5°	1081.4	1083.7	1088.4	1089.5	1088.4
135°	1133.5	1132.3	1136.9	1139.3	1141.6
137.5°	1179.7	1179.7	1185.5	1187.8	1186.7
140°	1224.8	1227.2	1229.5	1232.9	1234.1
142.5°	1265.3	1269.9	1271.1	1273.4	1273.4
145°	1307.0	1310.4	1310.4	1311.6	1313.9
147.5°	1339.3	1346.3	1345.1	1346.3	1347.4
150°	1375.2	1379.8	1378.7	1378.7	1379.8
152.5°	1405.3	1408.7	1406.4	1408.7	1407.6
155°	1433.0	1434.2	1430.7	1435.3	1431.9
157.5°	1457.3	1457.3	1452.7	1458.5	1452.7
160°	1478.1	1474.7	1473.5	1480.4	1473.5
162.5°	1496.6	1492.0	1490.9	1497.8	1489.7
165°	1511.7	1505.9	1505.9	1515.1	1504.7
167.5°	1524.4	1518.6	1517.5	1527.9	1516.3
170°	1534.8	1527.9	1529.0	1538.3	1526.7
172.5°	1541.7	1534.8	1536.0	1545.2	1532.5
175°	1546.4	1539.4	1540.6	1551.0	1537.1
177.5°	1549.8	1541.7	1544.1	1553.3	1539.4
180°	1546.4	1546.4	1546.4	1546.4	1546.4

(END OF REPORT)