

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: P334957

Luminaire Tested: **S124IW-S1050U935-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334957  
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-S1050U935-4F0-1E-UDD  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1050 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3611.5 lumens  
Efficiency: N/A  
Efficacy: 184.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

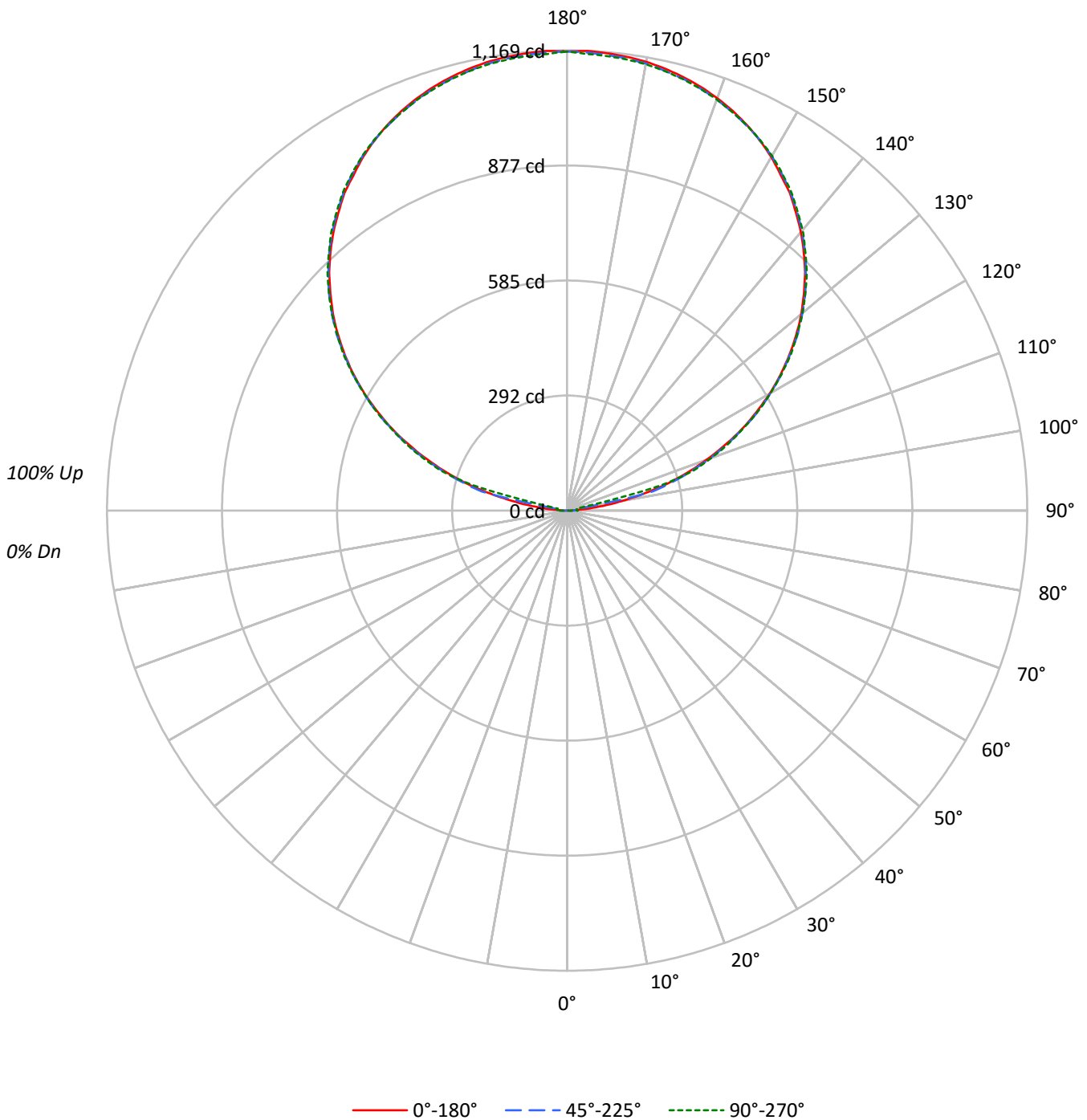
Input Watts (W): 19.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2.4	0.1
90°-100°	38.7	1.1
100°-110°	255.0	7.1
110°-120°	486.9	13.5
120°-130°	618.1	17.1
130°-140°	661.2	18.3
140°-150°	618.3	17.1
150°-160°	498.6	13.8
160°-170°	321.5	8.9
170°-180°	110.8	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.4	0.1
90°-120°	780.6	21.6
90°-150°	2678.1	74.2
90°-180°	3609.0	99.9
0°-180°	3611.5	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°	3	12	19	24	26	3
95°	48	18	19	24	25	59
105°	263	268	272	280	249	275
115°	490	493	492	494	494	483
125°	689	693	691	694	694	615
135°	855	854	858	859	861	659
145°	986	988	988	989	991	616
155°	1081	1082	1079	1083	1080	498
165°	1140	1136	1136	1143	1135	322
175°	1166	1161	1162	1170	1159	111
180°	1166	1166	1166	1166	1166	



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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°	2.6	12.2	19.2	24.4	26.2
92.5°	13.1	11.3	18.3	23.6	23.6
95°	48.0	18.3	19.2	24.4	25.3
97.5°	91.6	110.8	19.2	23.6	24.4
100°	143.1	158.8	38.4	23.6	24.4
102.5°	200.6	211.1	221.6	25.3	25.3
105°	262.6	267.8	272.2	280.0	248.6
107.5°	319.3	321.9	328.0	332.4	335.9
110°	376.9	379.5	384.7	386.4	389.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	432.7	437.9	439.7	<i>438.8</i>	442.3
115°	490.3	492.9	492.0	<i>493.7</i>	493.7
117.5°	541.7	545.2	547.8	<i>547.0</i>	547.0
120°	594.1	597.6	596.7	<i>598.4</i>	596.7
122.5°	642.9	644.7	646.4	<i>647.3</i>	645.5
125°	689.2	692.6	690.9	<i>693.5</i>	694.4
127.5°	733.6	734.5	738.9	<i>738.0</i>	737.1
130°	776.4	777.3	779.9	<i>780.7</i>	780.7
132.5°	815.6	817.4	820.9	<i>821.7</i>	820.9
135°	854.9	854.0	857.5	<i>859.3</i>	861.0
137.5°	889.8	889.8	894.2	<i>895.9</i>	895.0
140°	923.8	925.6	927.3	<i>929.9</i>	930.8
142.5°	954.3	957.8	958.7	<i>960.5</i>	960.5
145°	985.8	988.4	988.4	<i>989.2</i>	991.0
147.5°	1010.2	1015.4	1014.5	<i>1015.4</i>	1016.3
150°	1037.2	1040.7	1039.8	<i>1039.8</i>	1040.7
152.5°	1059.9	1062.5	1060.8	<i>1062.5</i>	1061.6
155°	1080.8	1081.7	1079.1	<i>1082.6</i>	1080.0
157.5°	1099.2	1099.2	1095.7	<i>1100.0</i>	1095.7
160°	1114.9	1112.2	1111.4	<i>1116.6</i>	1111.4
162.5°	1128.8	1125.3	1124.5	<i>1129.7</i>	1123.6
165°	1140.2	1135.8	1135.8	<i>1142.8</i>	1134.9
167.5°	1149.8	1145.4	1144.5	<i>1152.4</i>	1143.6
170°	1157.6	1152.4	1153.2	<i>1160.2</i>	1151.5
172.5°	1162.8	1157.6	1158.5	<i>1165.5</i>	1155.9
175°	1166.3	1161.1	1162.0	<i>1169.8</i>	1159.3
177.5°	<i>1168.9</i>	<i>1162.8</i>	<i>1164.6</i>	<i>1171.6</i>	<i>1161.1</i>
180°	1166.3	1166.3	1166.3	<i>1166.3</i>	1166.3

(END OF REPORT)