

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: P334774

Luminaire Tested: **S123IW-S1535U927-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334774  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123IW-S1535U927-4F0-1E-UDD  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1535 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4862.8 lumens  
Efficiency: N/A  
Efficacy: 158.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

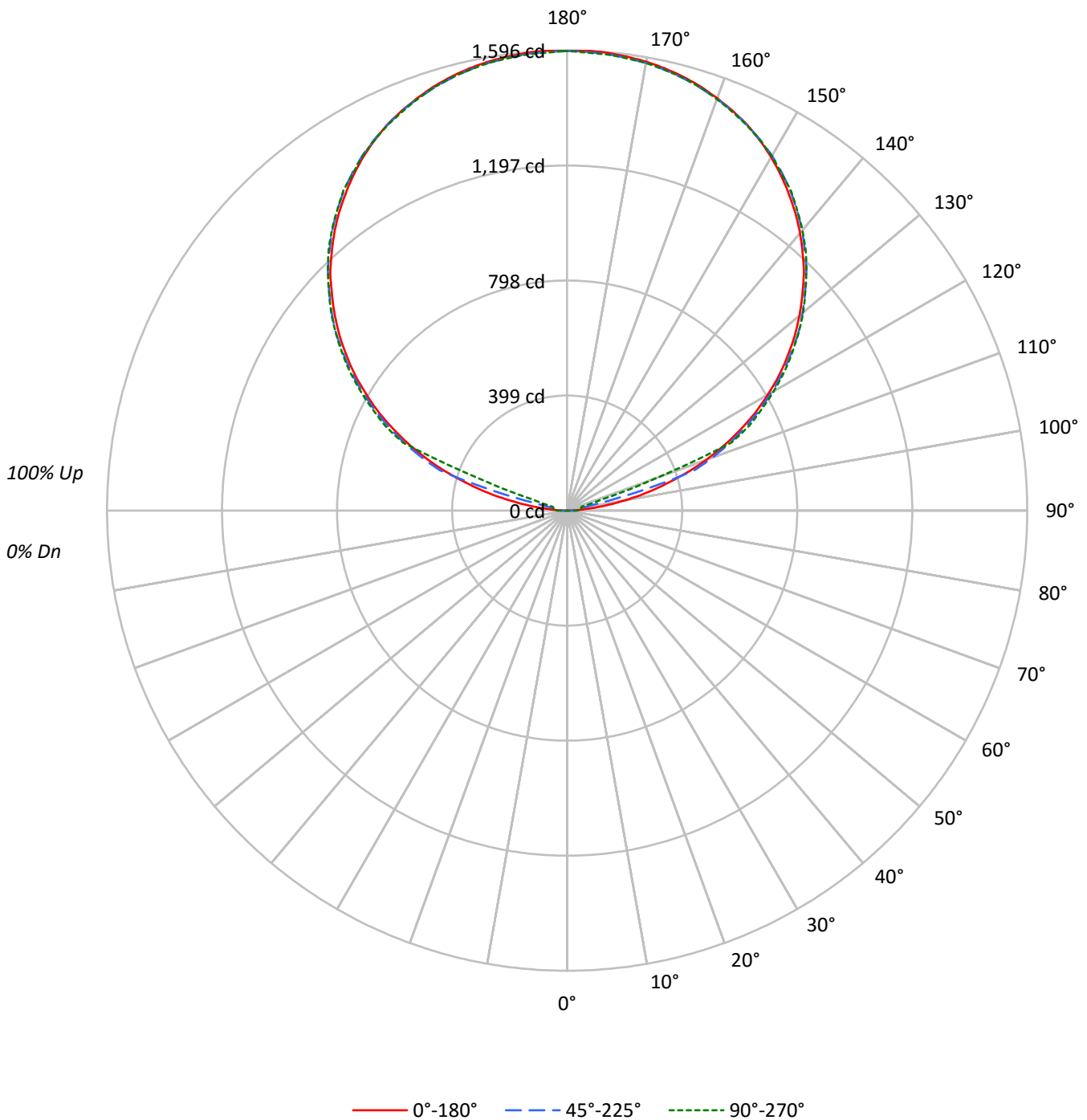
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3.2	0.1
90°-100°	56.2	1.2
100°-110°	271.8	5.6
110°-120°	666.0	13.7
120°-130°	845.5	17.4
130°-140°	903.2	18.6
140°-150°	844.6	17.4
150°-160°	681.2	14.0
160°-170°	439.6	9.0
170°-180°	151.5	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°	994.0	20.4
90°-150°	3587.2	73.8
90°-180°	4860.0	99.9
0°-180°	4862.8	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	13	28	33	36	4
95°	72	24	37	45	45	86
105°	353	366	259	50	52	374
115°	662	669	680	692	696	654
125°	933	943	947	950	952	834
135°	1162	1169	1174	1177	1174	894
145°	1341	1349	1351	1354	1354	839
155°	1477	1474	1476	1482	1474	680
165°	1557	1554	1553	1562	1554	440
175°	1594	1588	1589	1598	1588	152
180°	1594	1594	1594	1594	1594	



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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	13.0	28.4	33.2	35.5
92.5°	27.2	20.1	30.8	39.1	40.3
95°	72.2	23.7	36.7	45.0	45.0
97.5°	131.5	98.3	37.9	47.4	48.6
100°	200.1	223.8	39.1	48.6	49.7
102.5°	278.3	293.7	87.6	48.6	50.9
105°	352.9	365.9	259.4	49.7	52.1
107.5°	432.3	442.9	460.7	278.3	123.2
110°	511.6	521.1	534.1	495.0	325.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	587.4	595.7	608.7	619.4	617.0
115°	662.0	669.1	679.8	691.6	696.4
117.5°	735.5	743.7	749.7	759.1	760.3
120°	803.0	813.6	817.2	826.6	826.6
122.5°	871.6	879.9	884.7	890.6	891.8
125°	933.2	942.7	947.4	949.8	952.2
127.5°	994.8	1004.3	1010.2	1013.8	1011.4
130°	1051.7	1061.1	1065.9	1070.6	1068.2
132.5°	1106.1	1115.6	1119.2	1123.9	1120.3
135°	1161.8	1168.9	1173.6	1177.2	1173.6
137.5°	1209.2	1218.6	1221.0	1226.9	1224.6
140°	1256.5	1263.6	1267.2	1271.9	1269.6
142.5°	1300.4	1307.5	1311.0	1314.6	1311.0
145°	1340.6	1348.9	1351.3	1353.7	1353.7
147.5°	1379.7	1385.6	1388.0	1390.4	1384.4
150°	1415.2	1418.8	1421.2	1423.5	1420.0
152.5°	1447.2	1448.4	1449.6	1454.3	1448.4
155°	1476.8	1474.5	1475.6	1481.6	1474.5
157.5°	1500.5	1500.5	1499.3	1506.4	1497.0
160°	1521.8	1520.6	1519.5	1526.6	1518.3
162.5°	1542.0	1538.4	1537.2	1545.5	1538.4
165°	1557.4	1553.8	1552.6	1562.1	1553.8
167.5°	1570.4	1565.6	1565.6	1575.1	1565.6
170°	1581.0	1576.3	1576.3	1585.8	1576.3
172.5°	1588.1	1582.2	1583.4	1592.9	1582.2
175°	1594.1	1588.1	1589.3	1597.6	1588.1
177.5°	1596.4	1590.5	1591.7	1601.2	1589.3
180°	1594.1	1594.1	1594.1	1594.1	1594.1

(END OF REPORT)