

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: P334724

Luminaire Tested: **S123IP-S1195U830-4F0-1E-UDD**

Issue Date: 3/3/2020

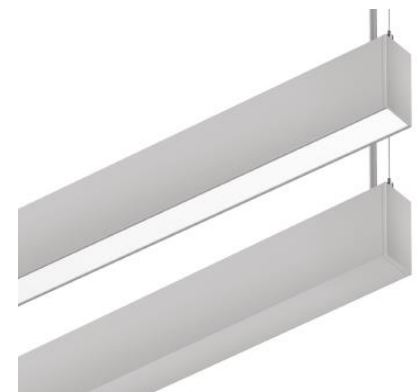
**Test Information**

Test Method: LM-79-08  
Report Number: P334724  
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: S123IP-S1195U830-4F0-1E-UDD  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 1195 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

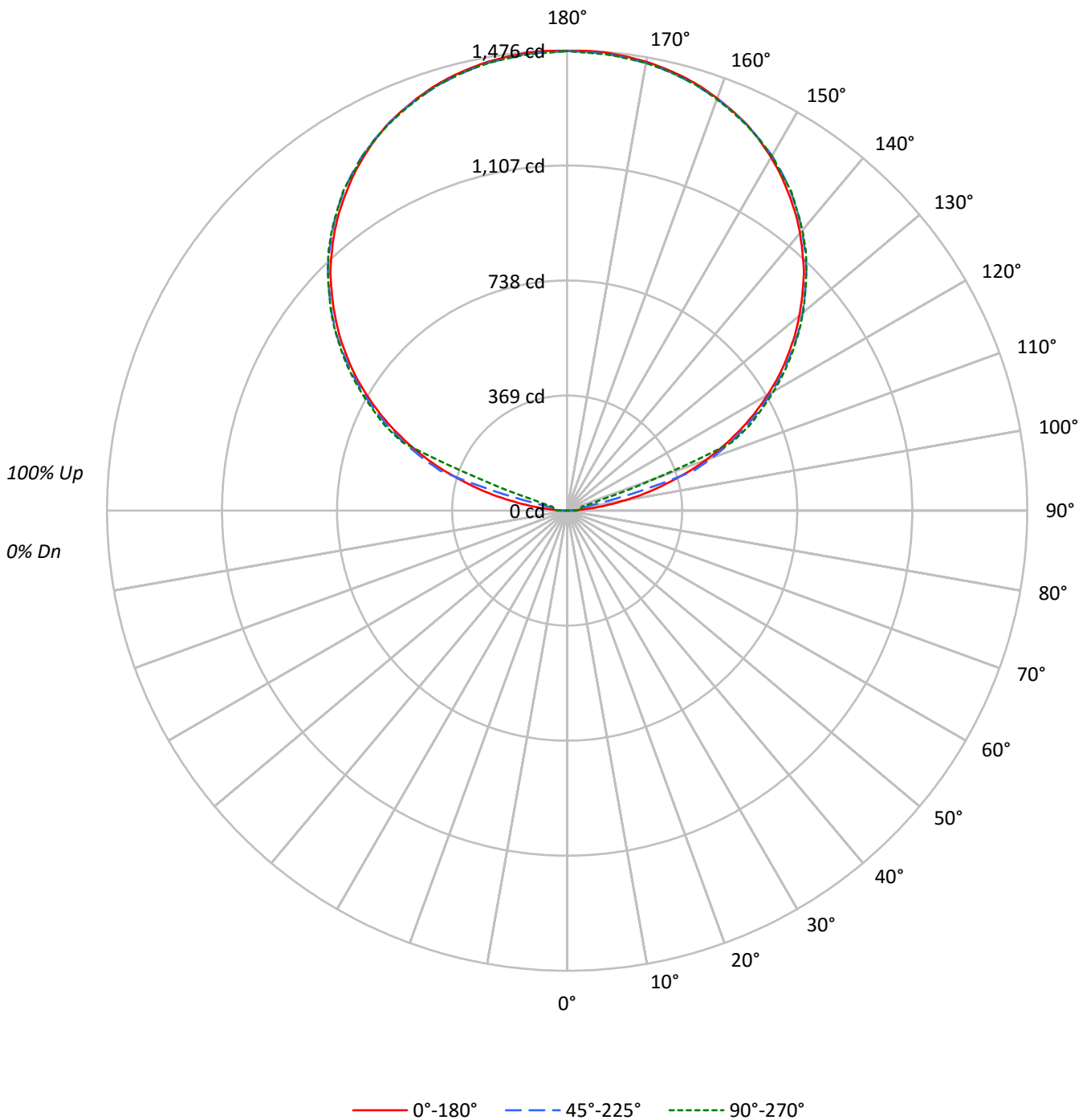
Lumens per Lamp: N/A  
Luminaire Lumens: 4496.4 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 41.9  
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°	2.9	0.1
90°-100°	52.0	1.2
100°-110°	251.3	5.6
110°-120°	615.8	13.7
120°-130°	781.8	17.4
130°-140°	835.1	18.6
140°-150°	780.9	17.4
150°-160°	629.9	14.0
160°-170°	406.5	9.0
170°-180°	140.1	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.9	0.1
90°-120°	919.1	20.4
90°-150°	3316.9	73.8
90°-180°	4493.0	99.9
0°-180°	4496.4	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	12	26	31	33	4
95°	67	22	34	42	42	80
105°	326	338	240	46	48	346
115°	612	619	629	640	644	605
125°	863	872	876	878	880	771
135°	1074	1081	1085	1088	1085	827
145°	1240	1247	1250	1252	1252	776
155°	1366	1363	1364	1370	1363	629
165°	1440	1437	1436	1444	1437	407
175°	1474	1468	1470	1477	1468	140
180°	1474	1474	1474	1474	1474	



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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°	1.1	12.0	26.3	30.7	32.9
92.5°	25.2	18.6	28.5	36.1	37.2
95°	66.8	21.9	33.9	41.6	41.6
97.5°	121.6	90.9	35.0	43.8	44.9
100°	185.1	207.0	36.1	44.9	46.0
102.5°	257.3	271.6	81.0	44.9	47.1
105°	326.3	338.4	239.8	46.0	48.2
107.5°	399.7	409.6	426.0	257.3	113.9
110°	473.1	481.8	493.9	457.7	301.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	543.1	550.8	562.9	572.7	570.5
115°	612.1	618.7	628.6	639.5	643.9
117.5°	680.0	687.7	693.2	701.9	703.0
120°	742.4	752.3	755.6	764.3	764.3
122.5°	806.0	813.6	818.0	823.5	824.6
125°	862.9	871.7	876.0	878.2	880.4
127.5°	919.8	928.6	934.1	937.4	935.2
130°	972.4	981.2	985.5	989.9	987.7
132.5°	1022.8	1031.5	1034.8	1039.2	1035.9
135°	1074.2	1080.8	1085.2	1088.5	1085.2
137.5°	1118.1	1126.8	1129.0	1134.5	1132.3
140°	1161.9	1168.4	1171.7	1176.1	1173.9
142.5°	1202.4	1208.9	1212.2	1215.5	1212.2
145°	1239.6	1247.3	1249.5	1251.6	1251.6
147.5°	1275.7	1281.2	1283.4	1285.6	1280.1
150°	1308.6	1311.9	1314.1	1316.3	1313.0
152.5°	1338.2	1339.3	1340.3	1344.7	1339.3
155°	1365.5	1363.3	1364.4	1369.9	1363.3
157.5°	1387.4	1387.4	1386.3	1392.9	1384.1
160°	1407.1	1406.1	1405.0	1411.5	1403.9
162.5°	1425.8	1422.5	1421.4	1429.0	1422.5
165°	1440.0	1436.7	1435.6	1444.4	1436.7
167.5°	1452.0	1447.7	1447.7	1456.4	1447.7
170°	1461.9	1457.5	1457.5	1466.3	1457.5
172.5°	1468.5	1463.0	1464.1	1472.8	1463.0
175°	1473.9	1468.5	1469.6	1477.2	1468.5
177.5°	1476.1	1470.7	1471.8	1480.5	1469.6
180°	1473.9	1473.9	1473.9	1473.9	1473.9

(END OF REPORT)