

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: P334722

Luminaire Tested: **S123IP-S805U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334722
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-S805U830-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 805 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3025.6 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

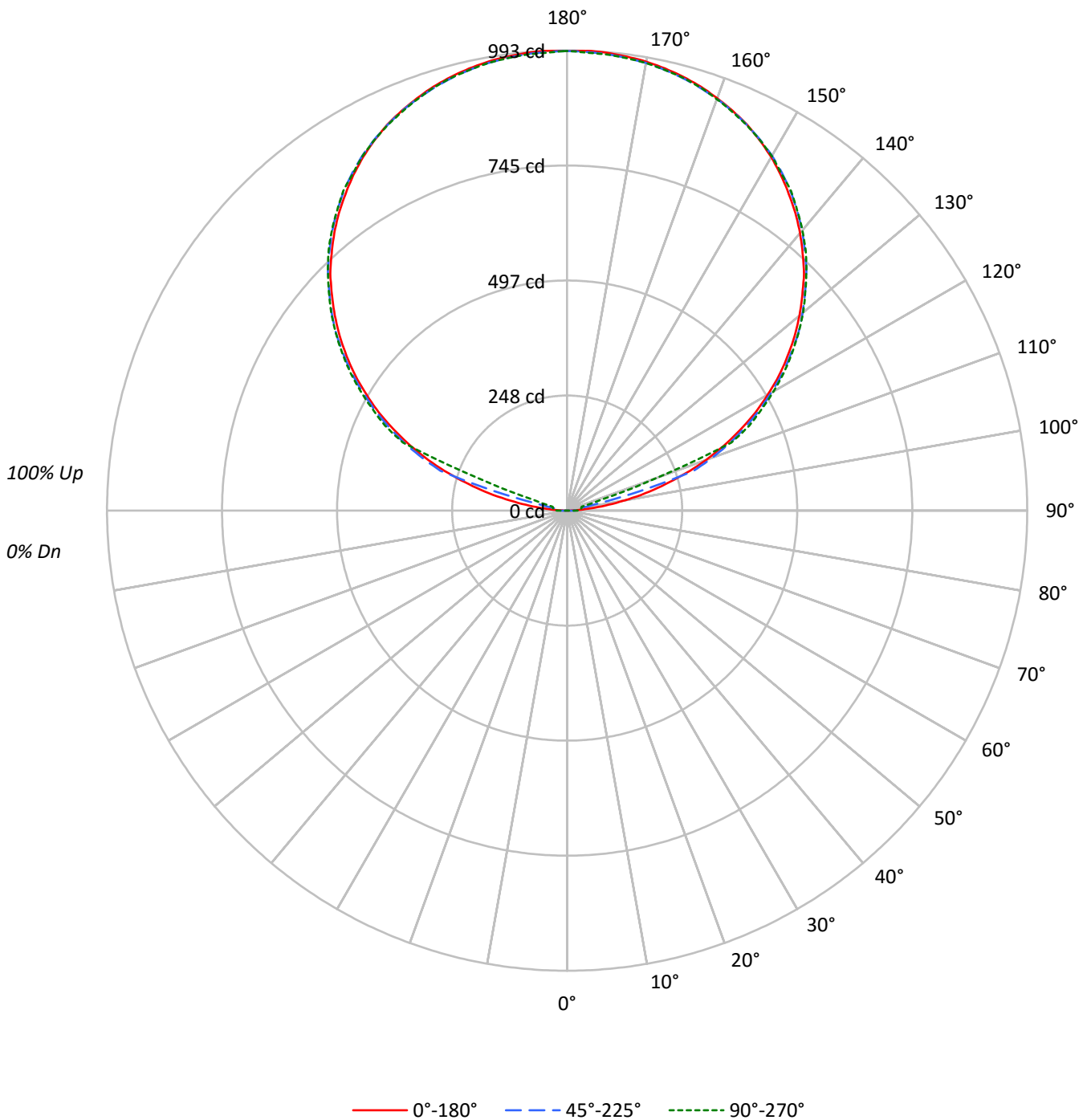
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334722

CATALOG NUMBER: S123IP-S805U830-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334722

CATALOG NUMBER: S123IP-S805U830-4F0-1E-UDD

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



TEST NUMBER: P334722

CATALOG NUMBER: S123IP-S805U830-4F0-1E-UDD

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°	2.0	0.1
90°-100°	35.0	1.2
100°-110°	169.1	5.6
110°-120°	414.4	13.7
120°-130°	526.1	17.4
130°-140°	562.0	18.6
140°-150°	525.5	17.4
150°-160°	423.9	14.0
160°-170°	273.5	9.0
170°-180°	94.3	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.1
90°-120°	618.4	20.4
90°-150°	2232.0	73.8
90°-180°	3024.0	99.9
0°-180°	3025.6	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	8	18	21	22	3
95°	45	15	23	28	28	54
105°	220	228	161	31	32	233
115°	412	416	423	430	433	407
125°	581	587	590	591	592	519
135°	723	727	730	732	730	557
145°	834	839	841	842	842	522
155°	919	917	918	922	917	423
165°	969	967	966	972	967	274
175°	992	988	989	994	988	94
180°	992	992	992	992	992	



TEST NUMBER: P334722

CATALOG NUMBER: S123IP-S805U830-4F0-1E-UDD

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°	0.7	8.1	17.7	20.6	22.1
92.5°	16.9	12.5	19.2	24.3	25.1
95°	44.9	14.7	22.8	28.0	28.0
97.5°	81.8	61.2	23.6	29.5	30.2
100°	124.5	139.3	24.3	30.2	30.9
102.5°	173.2	182.7	54.5	30.2	31.7
105°	219.6	227.7	161.4	30.9	32.4
107.5°	269.0	275.6	286.6	173.2	76.6
110°	318.3	324.2	332.3	308.0	202.6



TEST NUMBER: P334722

CATALOG NUMBER: S123IP-S805U830-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.5	370.6	378.8	385.4	383.9
115°	411.9	416.3	423.0	430.3	433.3
117.5°	457.6	462.8	466.4	472.3	473.1
120°	499.6	506.2	508.4	514.3	514.3
122.5°	542.3	547.5	550.4	554.1	554.9
125°	580.7	586.6	589.5	591.0	592.4
127.5°	619.0	624.9	628.6	630.8	629.3
130°	654.3	660.2	663.2	666.1	664.7
132.5°	688.2	694.1	696.3	699.3	697.1
135°	722.9	727.3	730.2	732.5	730.2
137.5°	752.3	758.2	759.7	763.4	761.9
140°	781.8	786.2	788.5	791.4	789.9
142.5°	809.1	813.5	815.7	817.9	815.7
145°	834.1	839.3	840.8	842.2	842.2
147.5°	858.5	862.1	863.6	865.1	861.4
150°	880.6	882.8	884.2	885.7	883.5
152.5°	900.5	901.2	901.9	904.9	901.2
155°	918.9	917.4	918.1	921.8	917.4
157.5°	933.6	933.6	932.9	937.3	931.4
160°	946.9	946.1	945.4	949.8	944.7
162.5°	959.4	957.2	956.5	961.6	957.2
165°	969.0	966.8	966.0	971.9	966.8
167.5°	977.1	974.1	974.1	980.0	974.1
170°	983.7	980.8	980.8	986.7	980.8
172.5°	988.1	984.5	985.2	991.1	984.5
175°	991.8	988.1	988.9	994.0	988.1
177.5°	993.3	989.6	990.4	996.3	988.9
180°	991.8	991.8	991.8	991.8	991.8

(END OF REPORT)