

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: P334653

Luminaire Tested: **S123IP-S1025U830-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IP-S1025U830-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1025 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3321.2 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

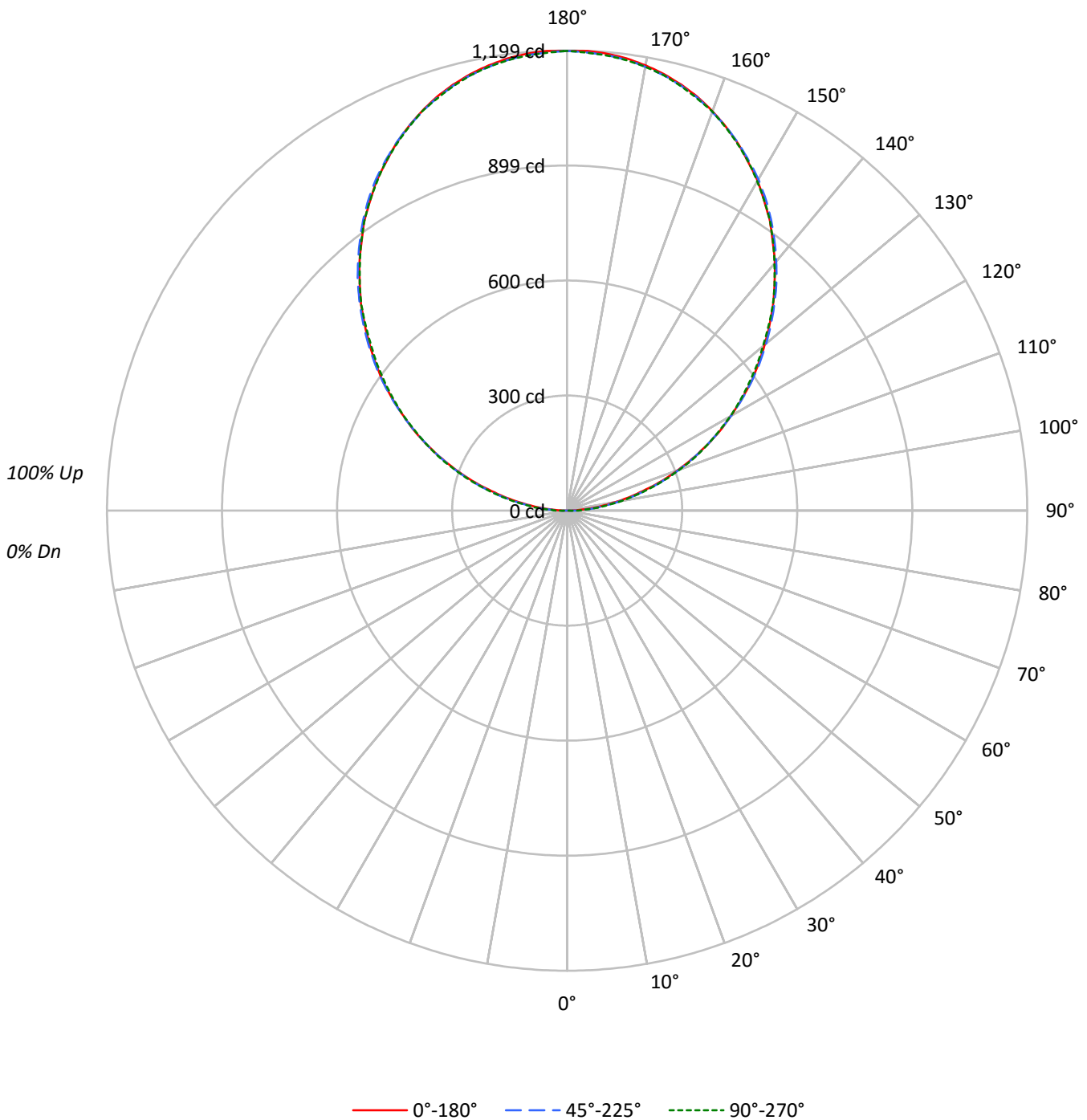
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334653

CATALOG NUMBER: S123IP-S1025U830-4F0-1E-UDD-1

Luminous Intensity Polar Plot





TEST NUMBER: P334653

CATALOG NUMBER: S123IP-S1025U830-4F0-1E-UDD-1

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: P334653

CATALOG NUMBER: S123IP-S1025U830-4F0-1E-UDD-1

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°	2.5	0.1
90°-100°	77.1	2.3
100°-110°	233.3	7.0
110°-120°	397.3	12.0
120°-130°	522.6	15.7
130°-140°	587.5	17.7
140°-150°	577.5	17.4
150°-160°	486.2	14.6
160°-170°	323.7	9.7
170°-180°	113.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.5	0.1
90°-120°	707.7	21.3
90°-150°	2395.4	72.1
90°-180°	3319.0	99.9
0°-180°	3321.2	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°	1	10	23	26	28	4
95°	56	62	70	73	73	61
105°	212	214	222	222	224	227
115°	400	403	401	402	401	396
125°	585	588	586	582	579	522
135°	759	765	764	760	758	585
145°	921	923	926	925	921	575
155°	1055	1055	1056	1059	1053	486
165°	1149	1146	1146	1152	1145	324
175°	1195	1191	1191	1197	1190	114
180°	1198	1198	1198	1198	1198	



TEST NUMBER: P334653

CATALOG NUMBER: S123IP-S1025U830-4F0-1E-UDD-1

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°	0.9	10.3	22.6	26.3	28.2
92.5°	28.2	33.9	39.5	42.3	40.5
95°	55.5	62.1	69.6	73.4	73.4
97.5°	91.3	96.0	101.6	106.3	105.4
100°	128.0	133.6	138.3	141.1	143.0
102.5°	170.3	173.1	179.7	182.5	181.6
105°	211.7	213.6	222.0	222.0	223.9
107.5°	260.6	261.6	265.3	268.1	267.2
110°	305.8	307.7	309.5	313.3	311.4



TEST NUMBER: P334653

CATALOG NUMBER: S123IP-S1025U830-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.8	353.8	353.8	<i>358.5</i>	358.5
115°	399.9	402.7	400.8	<i>401.7</i>	400.8
117.5°	447.8	448.8	446.9	<i>446.9</i>	444.1
120°	492.1	497.7	493.0	<i>492.1</i>	490.2
122.5°	538.2	541.9	540.1	<i>537.2</i>	534.4
125°	585.2	588.0	586.2	<i>582.4</i>	578.6
127.5°	628.5	634.1	632.3	<i>626.6</i>	622.8
130°	671.8	679.3	676.5	<i>672.7</i>	666.1
132.5°	715.0	722.6	720.7	<i>716.0</i>	711.3
135°	759.3	764.9	764.0	<i>760.2</i>	758.3
137.5°	799.7	804.4	807.3	<i>802.5</i>	799.7
140°	842.1	846.8	847.7	<i>846.8</i>	840.2
142.5°	880.6	885.3	887.2	<i>886.3</i>	881.6
145°	921.1	923.0	925.8	<i>924.9</i>	921.1
147.5°	955.9	959.7	962.5	<i>962.5</i>	956.8
150°	992.6	994.5	996.4	<i>996.4</i>	990.7
152.5°	1022.7	1025.5	1026.5	<i>1028.4</i>	1023.6
155°	1054.7	1054.7	1055.6	<i>1059.4</i>	1052.8
157.5°	1082.0	1081.0	1082.0	<i>1085.7</i>	1080.1
160°	1107.4	1105.5	1105.5	<i>1110.2</i>	1106.4
162.5°	1130.0	1127.1	1128.1	<i>1132.8</i>	1126.2
165°	1148.8	1146.0	1146.0	<i>1151.6</i>	1145.0
167.5°	1164.8	1161.0	1162.0	<i>1167.6</i>	1162.0
170°	1177.9	1174.2	1174.2	<i>1180.8</i>	1174.2
172.5°	1188.3	1184.5	1184.5	<i>1190.2</i>	1183.6
175°	1194.9	1191.1	1191.1	<i>1196.8</i>	1190.2
177.5°	<i>1198.6</i>	<i>1194.9</i>	<i>1194.9</i>	<i>1200.5</i>	<i>1193.9</i>
180°	1197.7	1197.7	1197.7	<i>1197.7</i>	1197.7

(END OF REPORT)