

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: P334674

Luminaire Tested: **S123IP-S1195U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334674
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-S1195U930-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1195 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3343.9 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

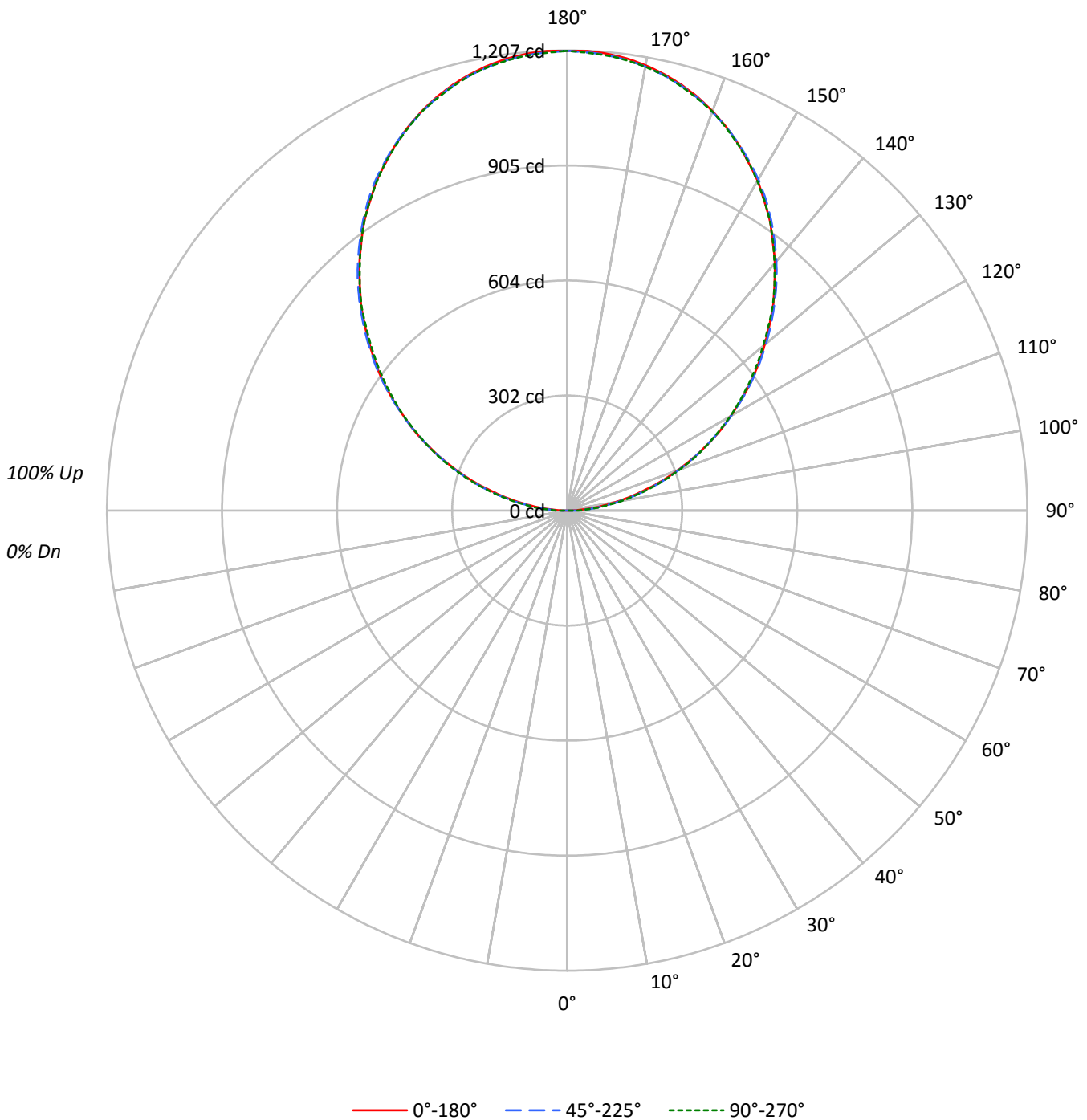
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334674

CATALOG NUMBER: S123IP-S1195U930-4F0-1E-UDD-1

Luminous Intensity Polar Plot





TEST NUMBER: P334674

CATALOG NUMBER: S123IP-S1195U930-4F0-1E-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: P334674

CATALOG NUMBER: S123IP-S1195U930-4F0-1E-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°	77.6	2.3
100°-110°	235.0	7.0
110°-120°	400.0	12.0
120°-130°	526.2	15.7
130°-140°	591.5	17.7
140°-150°	581.5	17.4
150°-160°	489.6	14.6
160°-170°	325.9	9.7
170°-180°	114.1	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°	712.6	21.3
90°-150°	2411.7	72.1
90°-180°	3341.0	99.9
0°-180°	3343.9	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	74	74	62
105°	213	215	224	224	226	228
115°	403	405	404	404	404	398
125°	589	592	590	586	583	525
135°	764	770	769	765	764	589
145°	927	929	932	931	927	579
155°	1062	1062	1063	1067	1060	489
165°	1157	1154	1154	1160	1153	326
175°	1203	1199	1199	1205	1198	114
180°	1206	1206	1206	1206	1206	



TEST NUMBER: P334674

CATALOG NUMBER: S123IP-S1195U930-4F0-1E-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	10.4	22.7	26.5	28.4
92.5°	28.4	34.1	39.8	42.6	40.7
95°	55.9	62.5	70.1	73.9	73.9
97.5°	91.9	96.6	102.3	107.0	106.1
100°	128.8	134.5	139.3	142.1	144.0
102.5°	171.5	174.3	180.9	183.8	182.8
105°	213.1	215.0	223.6	223.6	225.5
107.5°	262.4	263.3	267.1	270.0	269.0
110°	307.9	309.8	311.7	315.4	313.6



TEST NUMBER: P334674

CATALOG NUMBER: S123IP-S1195U930-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	355.2	356.2	356.2	360.9	360.9
115°	402.6	405.4	403.5	404.5	403.5
117.5°	450.9	451.9	450.0	450.0	447.1
120°	495.4	501.1	496.4	495.4	493.5
122.5°	541.8	545.6	543.7	540.9	538.1
125°	589.2	592.1	590.2	586.4	582.6
127.5°	632.8	638.5	636.6	630.9	627.1
130°	676.4	683.9	681.1	677.3	670.7
132.5°	719.9	727.5	725.6	720.9	716.1
135°	764.5	770.1	769.2	765.4	763.5
137.5°	805.2	809.9	812.8	808.0	805.2
140°	847.8	852.6	853.5	852.6	845.9
142.5°	886.7	891.4	893.3	892.3	887.6
145°	927.4	929.3	932.1	931.2	927.4
147.5°	962.4	966.2	969.1	969.1	963.4
150°	999.4	1001.3	1003.2	1003.2	997.5
152.5°	1029.7	1032.5	1033.5	1035.4	1030.6
155°	1061.9	1061.9	1062.8	1066.6	1060.0
157.5°	1089.4	1088.4	1089.4	1093.2	1087.5
160°	1114.9	1113.1	1113.1	1117.8	1114.0
162.5°	1137.7	1134.8	1135.8	1140.5	1133.9
165°	1156.6	1153.8	1153.8	1159.5	1152.8
167.5°	1172.7	1168.9	1169.9	1175.6	1169.9
170°	1186.0	1182.2	1182.2	1188.8	1182.2
172.5°	1196.4	1192.6	1192.6	1198.3	1191.7
175°	1203.0	1199.3	1199.3	1204.9	1198.3
177.5°	1206.8	1203.0	1203.0	1208.7	1202.1
180°	1205.9	1205.9	1205.9	1205.9	1205.9

(END OF REPORT)