

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: P334484

Luminaire Tested: **S122IP-S1080U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IP-S1080U835-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1080 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3852.3 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

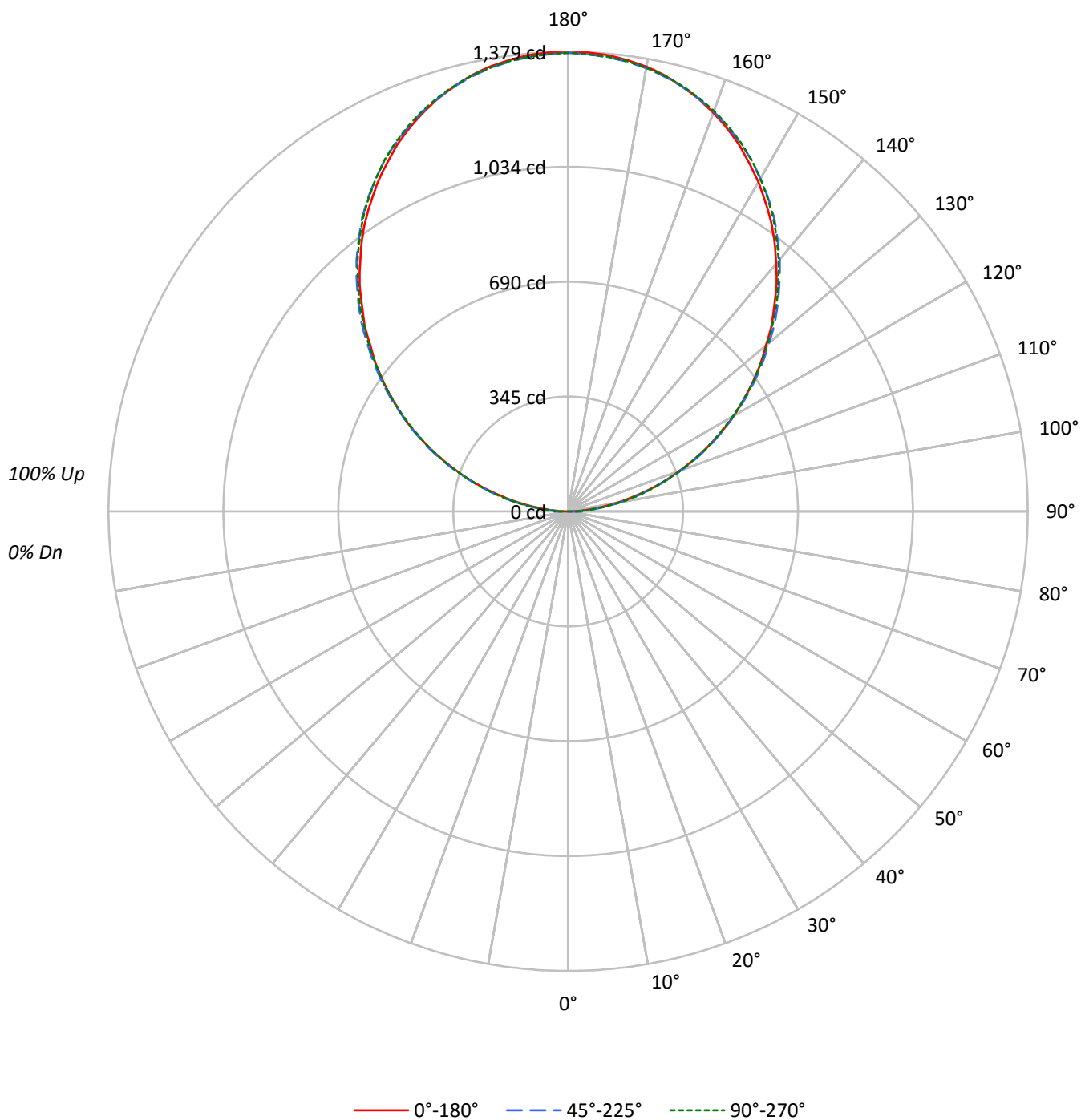
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334484

CATALOG NUMBER: S122IP-S1080U835-4F0-1E-UDD-1

Luminous Intensity Polar Plot



TEST NUMBER: P334484

CATALOG NUMBER: S122IP-S1080U835-4F0-1E-UDD-1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

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: P334484

CATALOG NUMBER: S122IP-S1080U835-4F0-1E-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°	3.9	0.1
90°-100°	85.1	2.2
100°-110°	270.7	7.0
110°-120°	463.2	12.0
120°-130°	609.2	15.8
130°-140°	683.8	17.7
140°-150°	670.5	17.4
150°-160°	562.5	14.6
160°-170°	373.0	9.7
170°-180°	130.4	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.9	0.1
90°-120°	819.0	21.3
90°-150°	2782.5	72.2
90°-180°	3848.0	99.9
0°-180°	3852.3	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	15	41	38	40	4
95°	60	72	74	74	72	67
105°	250	253	256	258	258	264
115°	465	472	469	468	465	460
125°	676	686	683	680	678	604
135°	875	887	890	889	885	676
145°	1062	1070	1077	1078	1073	663
155°	1214	1217	1221	1227	1223	559
165°	1321	1320	1320	1328	1322	373
175°	1374	1371	1368	1376	1370	131
180°	1376	1376	1376	1376	1376	

TEST NUMBER: P334484

CATALOG NUMBER: S122IP-S1080U835-4F0-1E-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°	1.2	15.1	40.7	38.3	39.5
92.5°	25.6	34.8	36.0	37.2	37.2
95°	60.4	72.0	74.3	74.3	72.0
97.5°	101.1	111.5	116.2	116.2	116.2
100°	147.5	156.8	160.3	160.3	159.1
102.5°	196.3	203.3	207.9	209.1	207.9
105°	249.7	253.2	255.5	257.9	257.9
107.5°	303.2	307.8	307.8	309.0	303.2
110°	354.3	361.3	361.3	361.3	357.8

TEST NUMBER: P334484

CATALOG NUMBER: S122IP-S1080U835-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	410.0	417.0	415.8	412.4	410.0
115°	464.6	471.6	469.3	468.1	464.6
117.5°	519.2	528.5	522.7	519.2	515.7
120°	573.8	583.1	573.8	573.8	570.3
122.5°	623.8	635.4	629.6	626.1	623.8
125°	676.0	686.5	683.0	679.5	678.4
127.5°	727.2	739.9	735.3	730.6	727.2
130°	774.8	789.9	787.6	785.2	780.6
132.5°	828.2	839.8	841.0	835.2	831.7
135°	874.7	887.4	889.8	888.6	885.1
137.5°	925.8	936.2	938.6	937.4	932.8
140°	971.1	981.5	987.3	987.3	982.7
142.5°	1017.5	1028.0	1031.5	1032.6	1028.0
145°	1061.7	1069.8	1076.8	1077.9	1073.3
147.5°	1101.2	1111.6	1116.3	1118.6	1114.0
150°	1141.8	1148.8	1153.5	1156.9	1153.5
152.5°	1177.8	1184.8	1190.6	1195.3	1190.6
155°	1213.9	1217.3	1220.8	1226.6	1223.1
157.5°	1245.2	1247.5	1249.9	1258.0	1252.2
160°	1273.1	1275.4	1276.6	1283.5	1278.9
162.5°	1298.7	1298.7	1299.8	1307.9	1302.1
165°	1320.7	1319.6	1319.6	1327.7	1321.9
167.5°	1340.5	1337.0	1337.0	1345.1	1339.3
170°	1355.6	1352.1	1350.9	1359.1	1352.1
172.5°	1366.0	1362.5	1361.4	1369.5	1362.5
175°	1374.2	1370.7	1368.3	1376.5	1369.5
177.5°	1378.8	1375.3	1373.0	1380.0	1373.0
180°	1376.5	1376.5	1376.5	1376.5	1376.5

(END OF REPORT)