

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: P334504

Luminaire Tested: **S122IP-S1080U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334504  
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-S1080U935-4F0-1E-UDD-1  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 1080 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3316.8 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

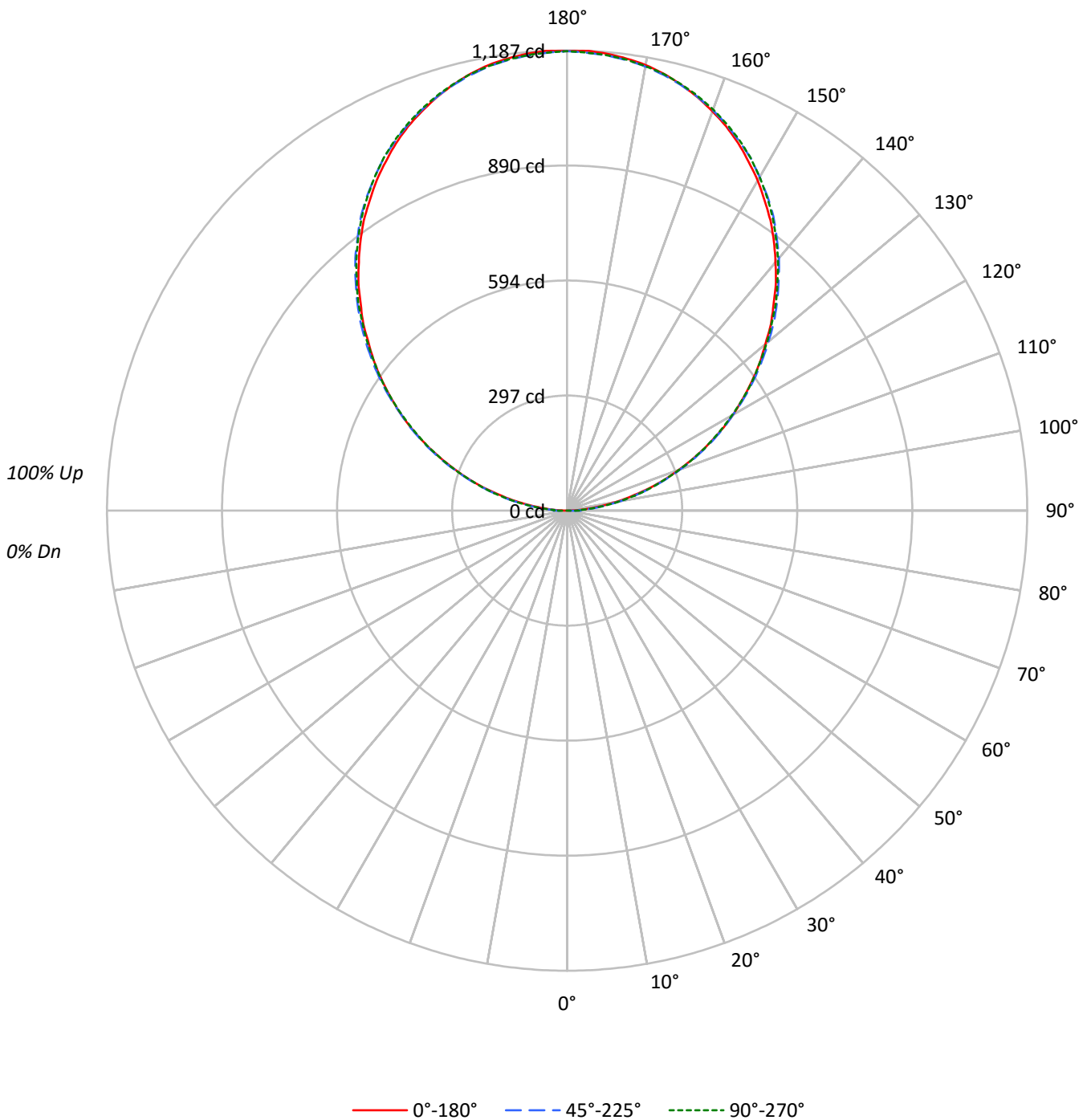
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P334504

CATALOG NUMBER: S122IP-S1080U935-4F0-1E-UDD-1

### Luminous Intensity Polar Plot





TEST NUMBER: P334504

CATALOG NUMBER: S122IP-S1080U935-4F0-1E-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: P334504

CATALOG NUMBER: S122IP-S1080U935-4F0-1E-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°	3.4	0.1
90°-100°	73.3	2.2
100°-110°	233.0	7.0
110°-120°	398.8	12.0
120°-130°	524.5	15.8
130°-140°	588.7	17.8
140°-150°	577.3	17.4
150°-160°	484.3	14.6
160°-170°	321.2	9.7
170°-180°	112.2	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.4	0.1
90°-120°	705.1	21.3
90°-150°	2395.7	72.2
90°-180°	3313.0	99.9
0°-180°	3316.8	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	13	35	33	34	3
95°	52	62	64	64	62	58
105°	215	218	220	222	222	227
115°	400	406	404	403	400	396
125°	582	591	588	585	584	520
135°	753	764	766	765	762	582
145°	914	921	927	928	924	571
155°	1045	1048	1051	1056	1053	481
165°	1137	1136	1136	1143	1138	321
175°	1183	1180	1178	1185	1179	112
180°	1185	1185	1185	1185	1185	



TEST NUMBER: P334504

CATALOG NUMBER: S122IP-S1080U935-4F0-1E-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°	1.0	13.0	35.0	33.0	34.0
92.5°	22.0	30.0	31.0	32.0	32.0
95°	52.0	62.0	64.0	64.0	62.0
97.5°	87.0	96.0	100.0	100.0	100.0
100°	127.0	135.0	138.0	138.0	137.0
102.5°	169.0	175.0	179.0	180.0	179.0
105°	215.0	218.0	220.0	222.0	222.0
107.5°	261.0	265.0	265.0	266.0	261.0
110°	305.0	311.0	311.0	311.0	308.0



TEST NUMBER: P334504

CATALOG NUMBER: S122IP-S1080U935-4F0-1E-UDD-1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	353.0	359.0	358.0	<i>355.0</i>	353.0
115°	400.0	406.1	404.0	<i>403.0</i>	400.0
117.5°	447.1	455.1	450.1	<i>447.1</i>	444.1
120°	494.1	502.1	494.1	<i>494.1</i>	491.1
122.5°	537.1	547.1	542.1	<i>539.1</i>	537.1
125°	582.1	591.1	588.1	<i>585.1</i>	584.1
127.5°	626.1	637.1	633.1	<i>629.1</i>	626.1
130°	667.1	680.1	678.1	<i>676.1</i>	672.1
132.5°	713.1	723.1	724.1	<i>719.1</i>	716.1
135°	753.1	764.1	766.1	<i>765.1</i>	762.1
137.5°	797.1	806.1	808.1	<i>807.1</i>	803.1
140°	836.1	845.1	850.1	<i>850.1</i>	846.1
142.5°	876.1	885.1	888.1	<i>889.1</i>	885.1
145°	914.1	921.1	927.1	<i>928.1</i>	924.1
147.5°	948.1	957.1	961.1	<i>963.1</i>	959.1
150°	983.1	989.1	993.1	<i>996.1</i>	993.1
152.5°	1014.1	1020.1	1025.1	<i>1029.1</i>	1025.1
155°	1045.1	1048.1	1051.1	<i>1056.1</i>	1053.1
157.5°	1072.1	1074.1	1076.1	<i>1083.1</i>	1078.1
160°	1096.1	1098.1	1099.1	<i>1105.1</i>	1101.1
162.5°	1118.1	1118.1	1119.1	<i>1126.1</i>	1121.1
165°	1137.1	1136.1	1136.1	<i>1143.1</i>	1138.1
167.5°	1154.1	1151.1	1151.1	<i>1158.1</i>	1153.1
170°	1167.1	1164.1	1163.1	<i>1170.1</i>	1164.1
172.5°	1176.1	1173.1	1172.1	<i>1179.1</i>	1173.1
175°	1183.1	1180.1	1178.1	<i>1185.1</i>	1179.1
177.5°	<i>1187.1</i>	<i>1184.1</i>	<i>1182.1</i>	<i>1188.1</i>	<i>1182.1</i>
180°	1185.1	1185.1	1185.1	<i>1185.1</i>	1185.1

(END OF REPORT)