

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: P334564

Luminaire Tested: **S122IP-S1080U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IP-S1080U927-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1080 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

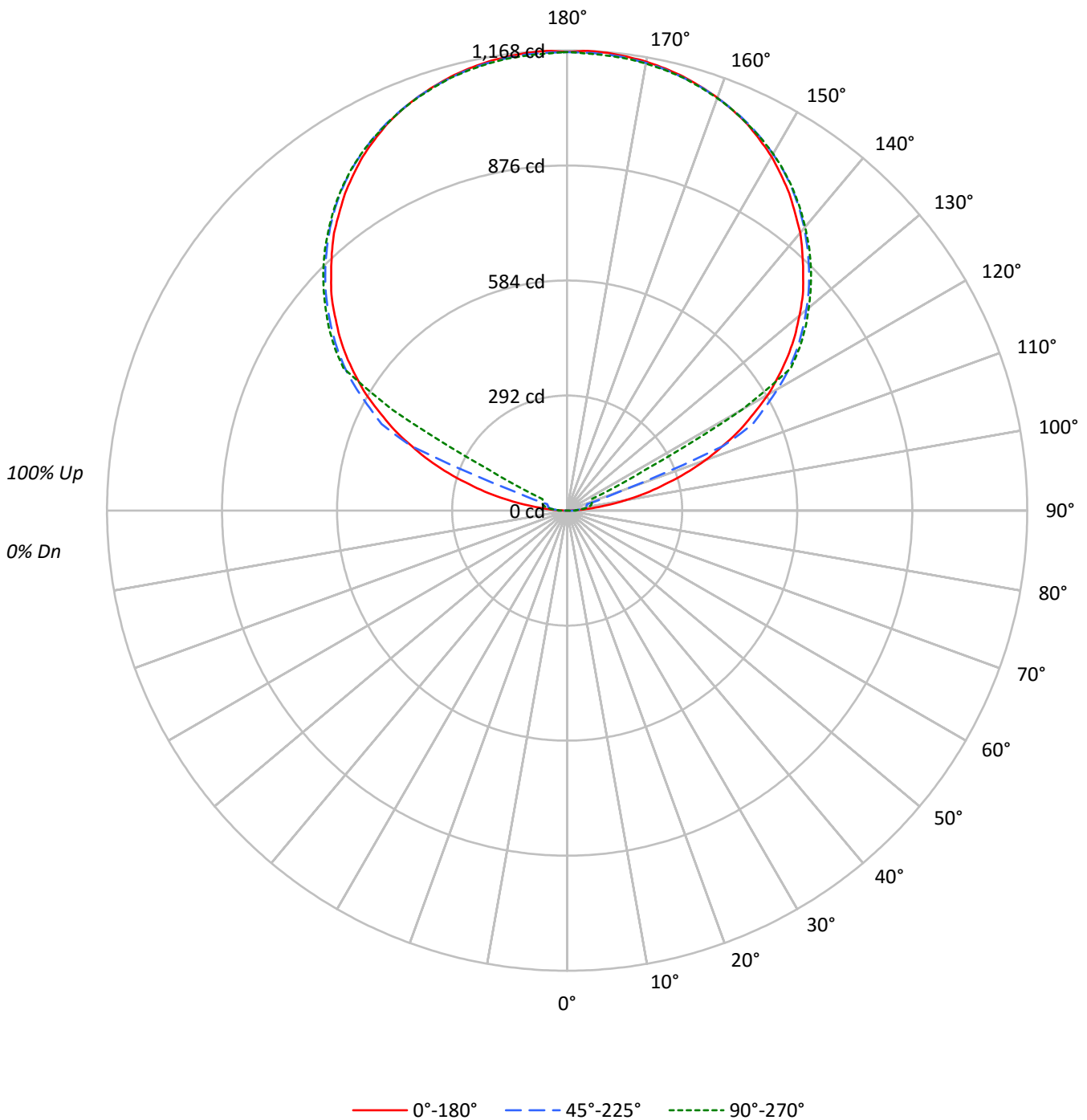
Lumens per Lamp: N/A
Luminaire Lumens: 3413.9 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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: P334564
CATALOG NUMBER: S122IP-S1080U927-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334564

CATALOG NUMBER: S122IP-S1080U927-4F0-1E-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: P334564

CATALOG NUMBER: S122IP-S1080U927-4F0-1E-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°	38.4	1.1
100°-110°	143.1	4.2
110°-120°	379.4	11.1
120°-130°	629.3	18.4
130°-140°	668.4	19.6
140°-150°	621.2	18.2
150°-160°	499.5	14.6
160°-170°	321.8	9.4
170°-180°	110.8	3.2
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°	560.8	16.4
90°-150°	2479.8	72.6
90°-180°	3412.0	99.9
0°-180°	3413.9	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	17	21	23	3
95°	55	27	33	37	36	65
105°	256	281	51	61	64	274
115°	484	498	520	130	69	477
125°	685	696	712	718	720	611
135°	847	861	868	877	875	654
145°	983	982	996	1002	998	615
155°	1082	1075	1085	1090	1083	499
165°	1140	1135	1138	1144	1138	322
175°	1166	1160	1162	1168	1160	111
180°	1164	1164	1164	1164	1164	



TEST NUMBER: P334564

CATALOG NUMBER: S122IP-S1080U927-4F0-1E-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°	0.8	10.1	16.8	21.1	22.7
92.5°	21.1	17.7	20.2	21.9	22.7
95°	54.7	26.9	32.8	37.1	36.2
97.5°	98.5	29.5	42.9	45.5	46.3
100°	149.1	33.7	48.0	54.7	56.4
102.5°	204.6	203.0	49.7	58.9	61.5
105°	256.0	281.3	51.4	60.6	64.0
107.5°	315.8	336.8	53.1	62.3	65.7
110°	373.1	390.7	147.4	63.2	66.5



TEST NUMBER: P334564

CATALOG NUMBER: S122IP-S1080U927-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	427.0	442.1	427.8	64.8	67.4
115°	484.2	498.5	519.6	129.7	69.1
117.5°	533.9	550.7	565.1	444.6	224.0
120°	589.5	602.1	617.3	627.4	513.7
122.5°	636.6	650.1	667.0	672.0	672.9
125°	684.6	695.6	711.6	717.5	720.0
127.5°	728.4	740.2	752.9	761.3	762.1
130°	769.7	783.2	792.4	801.7	800.9
132.5°	811.8	822.8	832.0	839.6	838.8
135°	847.2	860.7	868.2	876.7	875.0
137.5°	884.2	894.3	902.8	911.2	908.7
140°	920.4	927.2	936.4	944.0	939.8
142.5°	950.8	956.7	967.6	974.3	970.1
145°	982.8	981.9	996.2	1002.1	997.9
147.5°	1010.5	1008.0	1022.3	1026.5	1023.2
150°	1037.5	1031.6	1045.1	1050.1	1045.9
152.5°	1060.2	1053.5	1066.1	1071.2	1065.3
155°	1082.1	1074.6	1084.7	1089.7	1083.0
157.5°	1099.8	1093.1	1100.7	1106.6	1099.8
160°	1115.0	1109.9	1115.0	1120.0	1114.1
162.5°	1128.4	1123.4	1127.6	1133.5	1125.9
165°	1140.2	1135.2	1137.7	1143.6	1137.7
167.5°	1149.5	1144.4	1147.0	1152.9	1145.3
170°	1157.1	1152.0	1153.7	1159.6	1152.0
172.5°	1162.1	1157.1	1158.8	1164.7	1157.1
175°	1166.3	1160.4	1162.1	1168.0	1159.6
177.5°	1168.0	1162.1	1163.0	1168.9	1161.3
180°	1163.8	1163.8	1163.8	1163.8	1163.8

(END OF REPORT)