

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: P334509

Luminaire Tested: **S122IP-S1080U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334509
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-S1080U940-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1080 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3435.1 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

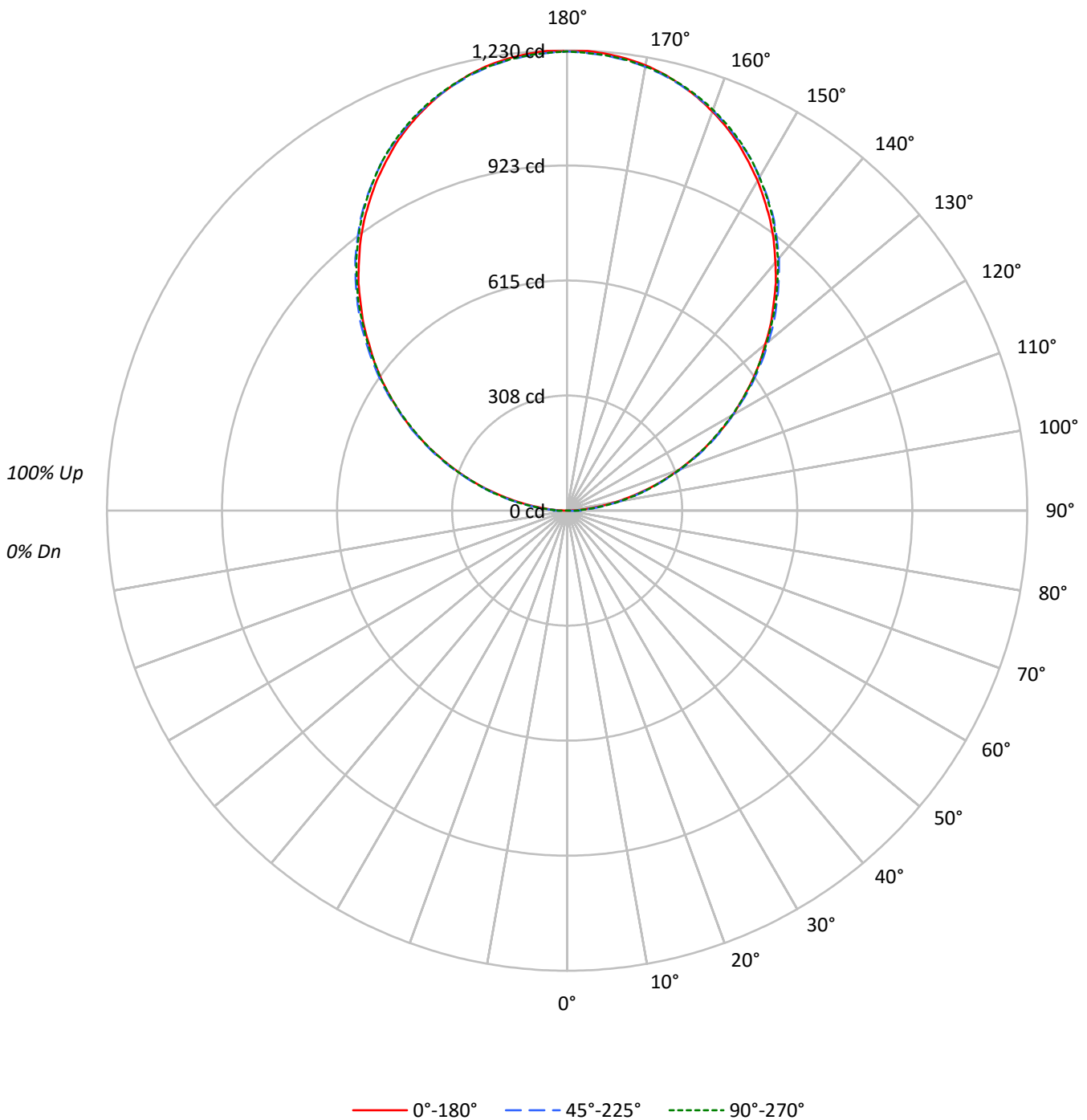
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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



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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°	3.5	0.1
90°-100°	75.9	2.2
100°-110°	241.4	7.0
110°-120°	413.0	12.0
120°-130°	543.2	15.8
130°-140°	609.7	17.7
140°-150°	597.9	17.4
150°-160°	501.5	14.6
160°-170°	332.6	9.7
170°-180°	116.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.5	0.1
90°-120°	730.3	21.3
90°-150°	2481.1	72.2
90°-180°	3432.0	99.9
0°-180°	3435.1	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	14	36	34	35	3
95°	54	64	66	66	64	60
105°	223	226	228	230	230	235
115°	414	420	418	417	414	410
125°	603	612	609	606	605	539
135°	780	791	793	792	789	603
145°	947	954	960	961	957	591
155°	1082	1086	1089	1094	1091	498
165°	1178	1177	1177	1184	1179	332
175°	1225	1222	1220	1227	1221	116
180°	1227	1227	1227	1227	1227	



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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	13.5	36.3	34.2	35.2
92.5°	22.8	31.1	32.1	33.1	33.1
95°	53.9	64.2	66.3	66.3	64.2
97.5°	90.1	99.4	103.6	103.6	103.6
100°	131.5	139.8	142.9	142.9	141.9
102.5°	175.0	181.3	185.4	186.4	185.4
105°	222.7	225.8	227.9	229.9	229.9
107.5°	270.3	274.5	274.5	275.5	270.3
110°	315.9	322.1	322.1	322.1	319.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.6	371.9	370.8	367.7	365.6
115°	414.3	420.5	418.5	417.4	414.3
117.5°	463.0	471.3	466.1	463.0	459.9
120°	511.7	520.0	511.7	511.7	508.6
122.5°	556.2	566.6	561.4	558.3	556.2
125°	602.8	612.2	609.0	605.9	604.9
127.5°	648.4	659.8	655.7	651.5	648.4
130°	690.9	704.3	702.3	700.2	696.1
132.5°	738.5	748.9	749.9	744.7	741.6
135°	780.0	791.3	793.4	792.4	789.3
137.5°	825.5	834.9	836.9	835.9	831.7
140°	865.9	875.2	880.4	880.4	876.3
142.5°	907.4	916.7	919.8	920.8	916.7
145°	946.7	954.0	960.2	961.2	957.1
147.5°	981.9	991.3	995.4	997.5	993.3
150°	1018.2	1024.4	1028.5	1031.7	1028.5
152.5°	1050.3	1056.5	1061.7	1065.8	1061.7
155°	1082.4	1085.5	1088.6	1093.8	1090.7
157.5°	1110.4	1112.4	1114.5	1121.8	1116.6
160°	1135.2	1137.3	1138.3	1144.6	1140.4
162.5°	1158.0	1158.0	1159.1	1166.3	1161.1
165°	1177.7	1176.7	1176.7	1183.9	1178.7
167.5°	1195.3	1192.2	1192.2	1199.5	1194.3
170°	1208.8	1205.7	1204.6	1211.9	1205.7
172.5°	1218.1	1215.0	1214.0	1221.2	1215.0
175°	1225.3	1222.2	1220.2	1227.4	1221.2
177.5°	1229.5	1226.4	1224.3	1230.5	1224.3
180°	1227.4	1227.4	1227.4	1227.4	1227.4

(END OF REPORT)