

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: P334479

Luminaire Tested: **S122IP-S1080U830-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334479
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-S1080U830-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1080 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3630.9 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

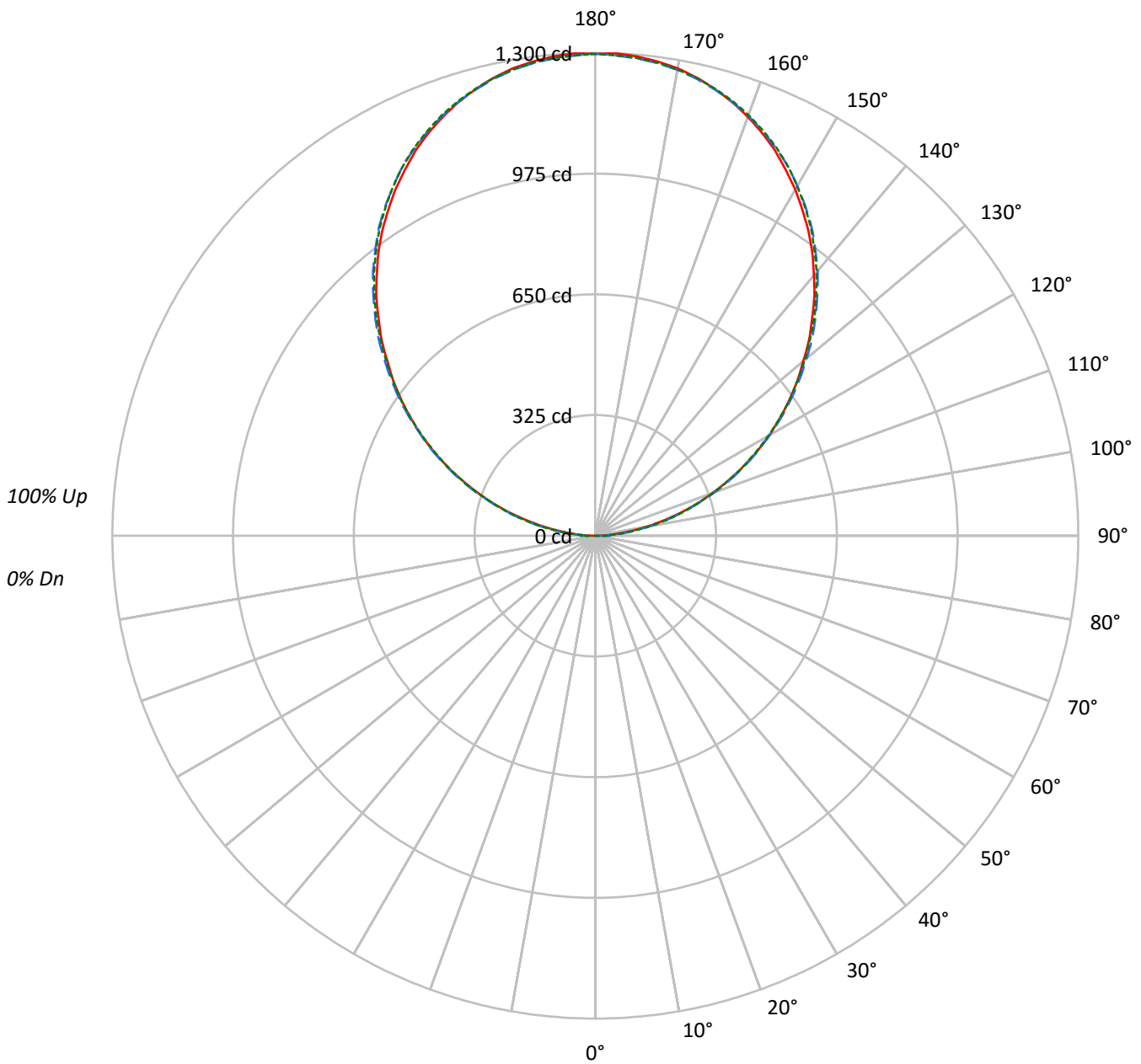
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - · 90°-270°



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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°	3.7	0.1
90°-100°	80.2	2.2
100°-110°	255.2	7.0
110°-120°	436.6	12.0
120°-130°	574.2	15.8
130°-140°	644.5	17.7
140°-150°	632.0	17.4
150°-160°	530.1	14.6
160°-170°	351.6	9.7
170°-180°	122.9	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.7	0.1
90°-120°	772.0	21.3
90°-150°	2622.6	72.2
90°-180°	3627.0	99.9
0°-180°	3630.9	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	14	38	36	37	4
95°	57	68	70	70	68	64
105°	235	239	241	243	243	249
115°	438	444	442	441	438	433
125°	637	647	644	640	639	569
135°	824	836	839	838	834	637
145°	1001	1008	1015	1016	1012	625
155°	1144	1147	1151	1156	1153	527
165°	1245	1244	1244	1251	1246	351
175°	1295	1292	1290	1297	1291	123
180°	1297	1297	1297	1297	1297	



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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°	1.1	14.2	38.3	36.1	37.2
92.5°	24.1	32.8	33.9	35.0	35.0
95°	56.9	67.9	70.1	70.1	67.9
97.5°	95.3	105.1	109.5	109.5	109.5
100°	139.0	147.8	151.1	151.1	150.0
102.5°	185.0	191.6	196.0	197.1	196.0
105°	235.4	238.7	240.9	243.1	243.1
107.5°	285.8	290.1	290.1	291.2	285.8
110°	333.9	340.5	340.5	340.5	337.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	386.5	393.0	392.0	388.7	386.5
115°	437.9	444.5	442.3	441.2	437.9
117.5°	489.4	498.2	492.7	489.4	486.1
120°	540.9	549.6	540.9	540.9	537.6
122.5°	587.9	598.9	593.4	590.1	587.9
125°	637.2	647.1	643.8	640.5	639.4
127.5°	685.4	697.4	693.0	688.7	685.4
130°	730.3	744.5	742.3	740.1	735.7
132.5°	780.6	791.6	792.7	787.2	783.9
135°	824.4	836.5	838.6	837.6	834.3
137.5°	872.6	882.4	884.6	883.5	879.2
140°	915.3	925.1	930.6	930.6	926.2
142.5°	959.1	968.9	972.2	973.3	968.9
145°	1000.7	1008.3	1014.9	1016.0	1011.6
147.5°	1037.9	1047.8	1052.1	1054.3	1050.0
150°	1076.2	1082.8	1087.2	1090.5	1087.2
152.5°	1110.2	1116.7	1122.2	1126.6	1122.2
155°	1144.1	1147.4	1150.7	1156.2	1152.9
157.5°	1173.7	1175.9	1178.1	1185.7	1180.2
160°	1199.9	1202.1	1203.2	1209.8	1205.4
162.5°	1224.0	1224.0	1225.1	1232.8	1227.3
165°	1244.8	1243.7	1243.7	1251.4	1245.9
167.5°	1263.4	1260.2	1260.2	1267.8	1262.4
170°	1277.7	1274.4	1273.3	1281.0	1274.4
172.5°	1287.5	1284.2	1283.2	1290.8	1284.2
175°	1295.2	1291.9	1289.7	1297.4	1290.8
177.5°	1299.6	1296.3	1294.1	1300.7	1294.1
180°	1297.4	1297.4	1297.4	1297.4	1297.4

(END OF REPORT)