

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: P334549

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334549
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-S1080U830-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1080 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

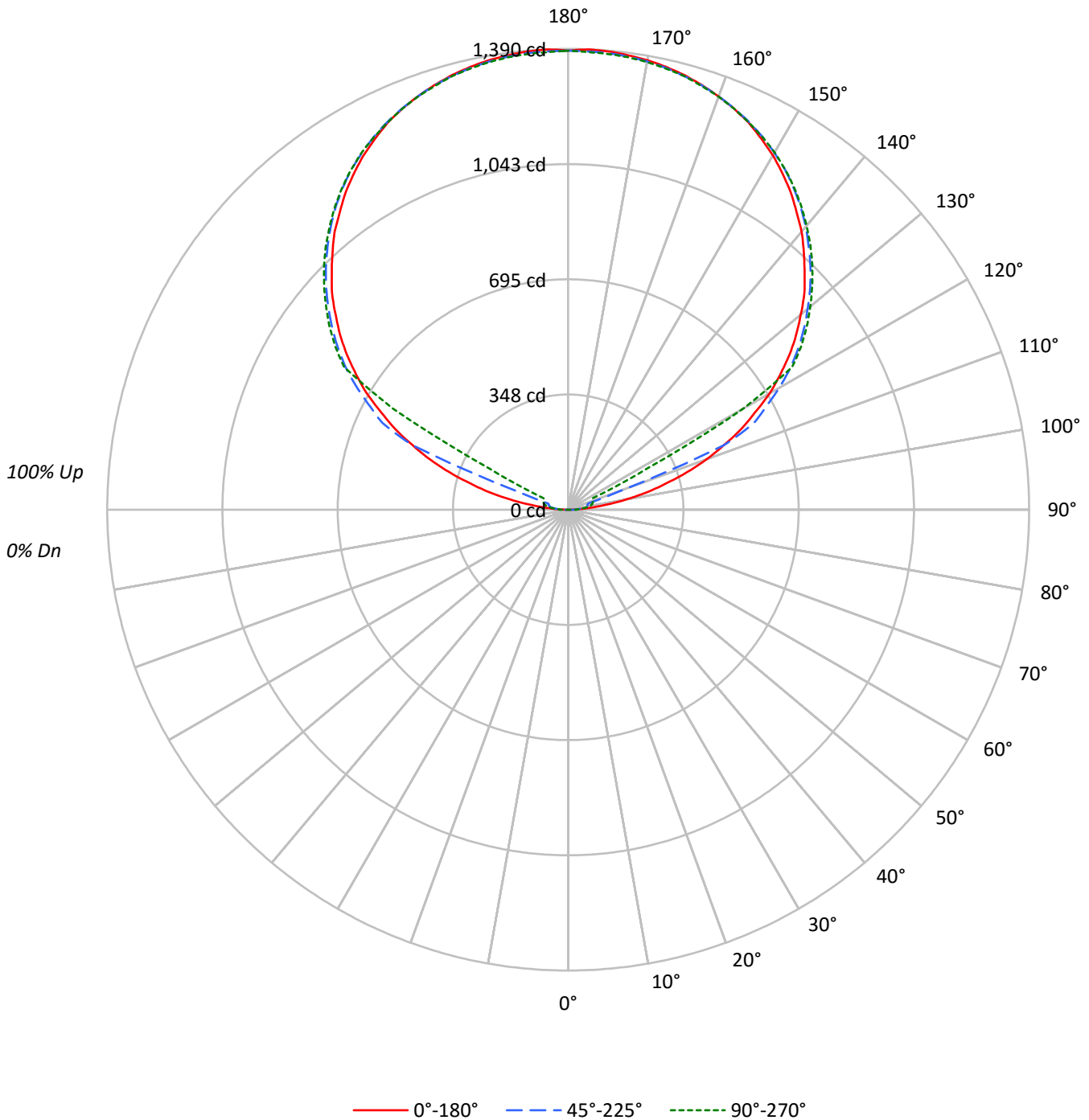
Lumens per Lamp: N/A
Luminaire Lumens: 4061.9 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (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°	2.4	0.1
90°-100°	45.7	1.1
100°-110°	170.2	4.2
110°-120°	451.4	11.1
120°-130°	748.7	18.4
130°-140°	795.3	19.6
140°-150°	739.2	18.2
150°-160°	594.3	14.6
160°-170°	382.9	9.4
170°-180°	131.8	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.4	0.1
90°-120°	667.3	16.4
90°-150°	2950.5	72.6
90°-180°	4059.0	99.9
0°-180°	4061.9	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	12	20	25	27	4
95°	65	32	39	44	43	77
105°	305	335	61	72	76	325
115°	576	593	618	154	82	567
125°	815	828	847	854	857	727
135°	1008	1024	1033	1043	1041	779
145°	1169	1168	1185	1192	1187	731
155°	1288	1278	1290	1296	1288	593
165°	1357	1351	1354	1361	1354	383
175°	1388	1381	1383	1390	1380	132
180°	1385	1385	1385	1385	1385	



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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	12.0	20.0	25.0	27.1
92.5°	25.0	21.0	24.0	26.1	27.1
95°	65.1	32.1	39.1	44.1	43.1
97.5°	117.2	35.1	51.1	54.1	55.1
100°	177.3	40.1	57.1	65.1	67.1
102.5°	243.5	241.5	59.1	70.1	73.1
105°	304.6	334.7	61.1	72.1	76.1
107.5°	375.7	400.8	63.1	74.1	78.2
110°	443.9	464.9	175.3	75.1	79.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	508.0	526.0	509.0	77.2	80.2
115°	576.1	593.2	618.2	154.3	82.2
117.5°	635.2	655.3	672.3	529.0	266.5
120°	701.4	716.4	734.4	746.5	611.2
122.5°	757.5	773.5	793.6	799.6	800.6
125°	814.6	827.6	846.7	853.7	856.7
127.5°	866.7	880.7	895.8	905.8	906.8
130°	915.8	931.8	942.8	953.9	952.9
132.5°	965.9	978.9	989.9	999.0	998.0
135°	1008.0	1024.0	1033.0	1043.0	1041.0
137.5°	1052.1	1064.1	1074.1	1084.1	1081.1
140°	1095.1	1103.2	1114.2	1123.2	1118.2
142.5°	1131.2	1138.2	1151.3	1159.3	1154.3
145°	1169.3	1168.3	1185.3	1192.3	1187.3
147.5°	1202.4	1199.4	1216.4	1221.4	1217.4
150°	1234.4	1227.4	1243.4	1249.4	1244.4
152.5°	1261.5	1253.5	1268.5	1274.5	1267.5
155°	1287.5	1278.5	1290.5	1296.5	1288.5
157.5°	1308.6	1300.5	1309.6	1316.6	1308.6
160°	1326.6	1320.6	1326.6	1332.6	1325.6
162.5°	1342.6	1336.6	1341.6	1348.6	1339.6
165°	1356.7	1350.6	1353.7	1360.7	1353.7
167.5°	1367.7	1361.7	1364.7	1371.7	1362.7
170°	1376.7	1370.7	1372.7	1379.7	1370.7
172.5°	1382.7	1376.7	1378.7	1385.7	1376.7
175°	1387.7	1380.7	1382.7	1389.7	1379.7
177.5°	1389.7	1382.7	1383.7	1390.7	1381.7
180°	1384.7	1384.7	1384.7	1384.7	1384.7

(END OF REPORT)