

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: P334654

Luminaire Tested: **S123IP-S1195U830-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IP-S1195U830-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1195 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3865.7 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

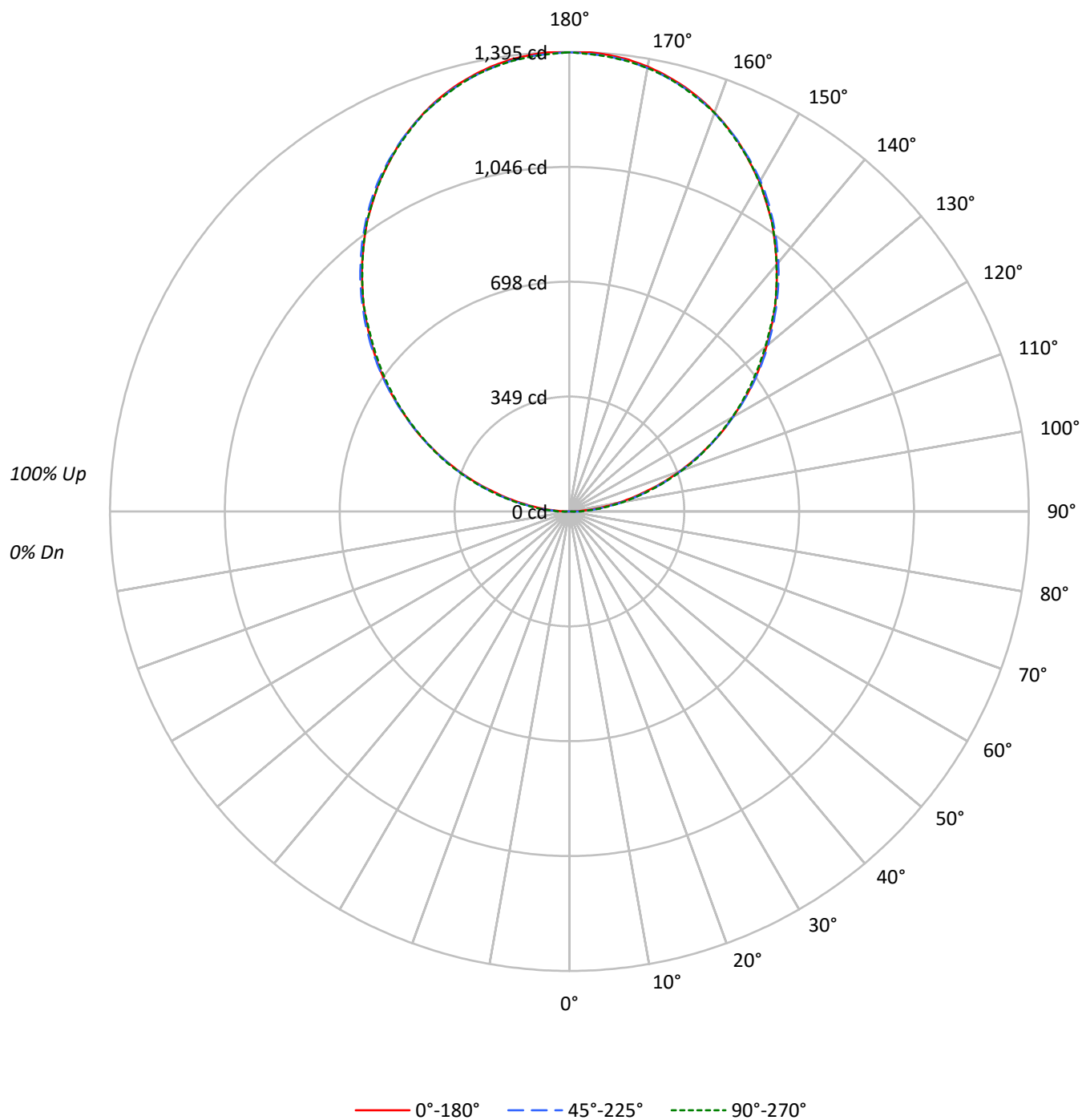
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

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°	2.9	0.1
90°-100°	89.7	2.3
100°-110°	271.6	7.0
110°-120°	462.4	12.0
120°-130°	608.3	15.7
130°-140°	683.8	17.7
140°-150°	672.2	17.4
150°-160°	566.0	14.6
160°-170°	376.8	9.7
170°-180°	131.9	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.9	0.1
90°-120°	823.8	21.3
90°-150°	2788.1	72.1
90°-180°	3863.0	99.9
0°-180°	3865.7	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	26	31	33	5
95°	65	72	81	85	85	71
105°	246	249	258	258	261	264
115°	465	469	466	468	466	461
125°	681	684	682	678	674	607
135°	884	890	889	885	883	681
145°	1072	1074	1078	1076	1072	670
155°	1228	1228	1229	1233	1225	565
165°	1337	1334	1334	1340	1333	377
175°	1391	1386	1386	1393	1385	132
180°	1394	1394	1394	1394	1394	

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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	12.0	26.3	30.7	32.9
92.5°	32.9	39.4	46.0	49.3	47.1
95°	64.6	72.3	81.0	85.4	85.4
97.5°	106.2	111.7	118.3	123.7	122.7
100°	148.9	155.5	161.0	164.3	166.5
102.5°	198.2	201.5	209.2	212.5	211.4
105°	246.4	248.6	258.4	258.4	260.6
107.5°	303.3	304.4	308.8	312.1	311.0
110°	355.9	358.1	360.3	364.7	362.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	410.7	411.8	411.8	417.2	417.2
115°	465.4	468.7	466.5	467.6	466.5
117.5°	521.3	522.4	520.2	520.2	516.9
120°	572.7	579.3	573.8	572.7	570.6
122.5°	626.4	630.8	628.6	625.3	622.0
125°	681.2	684.5	682.3	677.9	673.5
127.5°	731.5	738.1	735.9	729.4	725.0
130°	781.9	790.7	787.4	783.0	775.3
132.5°	832.3	841.1	838.9	833.4	827.9
135°	883.8	890.3	889.2	884.9	882.7
137.5°	930.9	936.3	939.6	934.1	930.9
140°	980.1	985.6	986.7	985.6	977.9
142.5°	1025.0	1030.5	1032.7	1031.6	1026.1
145°	1072.1	1074.3	1077.6	1076.5	1072.1
147.5°	1112.6	1117.0	1120.3	1120.3	1113.7
150°	1155.4	1157.5	1159.7	1159.7	1153.2
152.5°	1190.4	1193.7	1194.8	1197.0	1191.5
155°	1227.6	1227.6	1228.7	1233.1	1225.4
157.5°	1259.4	1258.3	1259.4	1263.8	1257.2
160°	1289.0	1286.8	1286.8	1292.2	1287.9
162.5°	1315.2	1312.0	1313.1	1318.5	1310.9
165°	1337.1	1333.9	1333.9	1340.4	1332.8
167.5°	1355.8	1351.4	1352.5	1359.0	1352.5
170°	1371.1	1366.7	1366.7	1374.4	1366.7
172.5°	1383.1	1378.8	1378.8	1385.3	1377.7
175°	1390.8	1386.4	1386.4	1393.0	1385.3
177.5°	1395.2	1390.8	1390.8	1397.4	1389.7
180°	1394.1	1394.1	1394.1	1394.1	1394.1

(END OF REPORT)