

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: P334659

Luminaire Tested: **S123IP-S1195U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334659
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-S1195U835-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1195 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4101.4 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

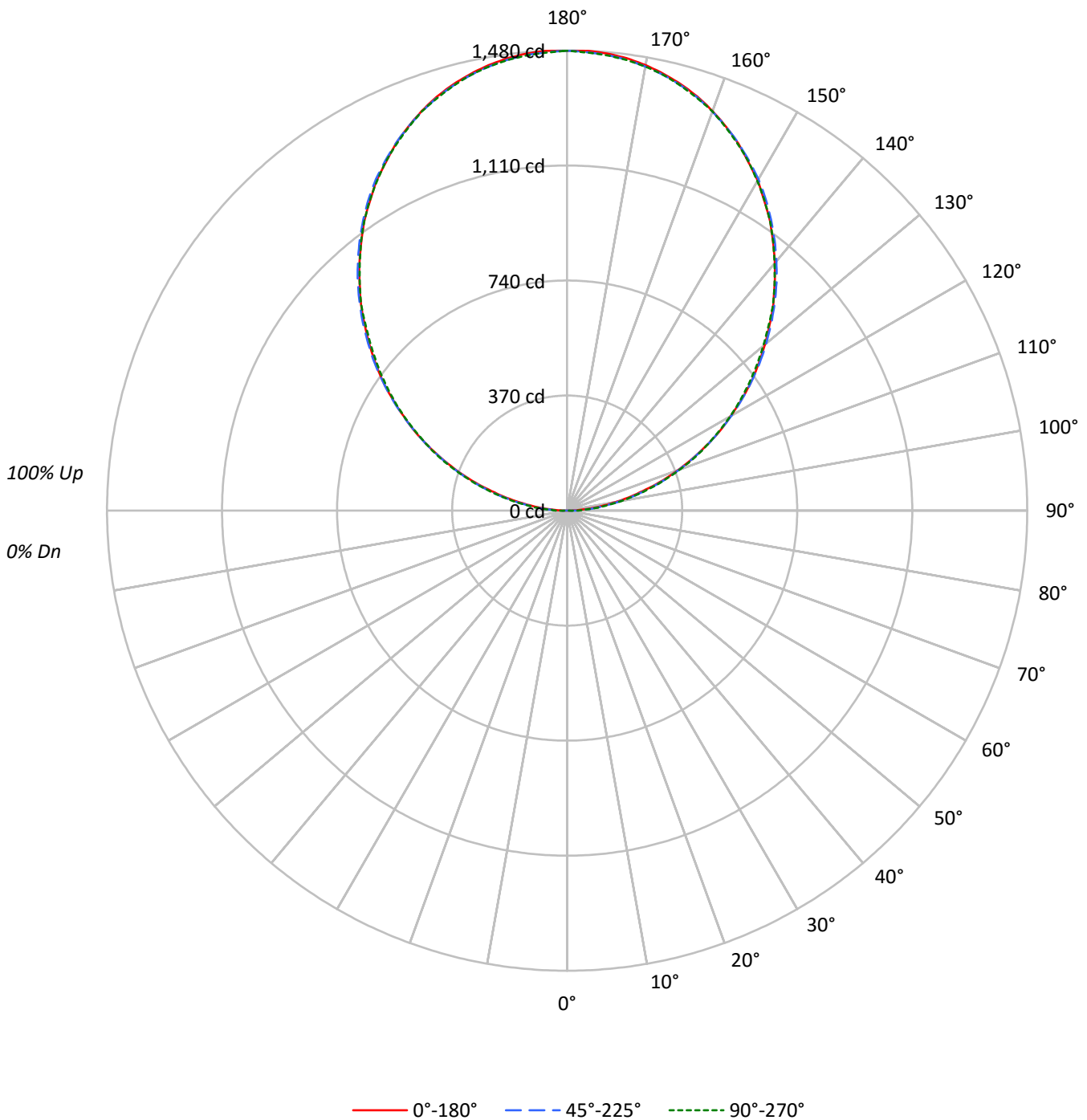
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334659

CATALOG NUMBER: S123IP-S1195U835-4F0-1E-UDD-1

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°	3.1	0.1
90°-100°	95.2	2.3
100°-110°	288.2	7.0
110°-120°	490.6	12.0
120°-130°	645.4	15.7
130°-140°	725.5	17.7
140°-150°	713.2	17.4
150°-160°	600.5	14.6
160°-170°	399.7	9.7
170°-180°	140.0	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.1	0.1
90°-120°	874.0	21.3
90°-150°	2958.1	72.1
90°-180°	4098.0	99.9
0°-180°	4101.4	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	13	28	32	35	5
95°	69	77	86	91	91	76
105°	261	264	274	274	276	280
115°	494	497	495	496	495	489
125°	723	726	724	719	715	645
135°	938	945	943	939	936	722
145°	1138	1140	1143	1142	1138	710
155°	1302	1302	1304	1308	1300	600
165°	1419	1415	1415	1422	1414	400
175°	1476	1471	1471	1478	1470	140
180°	1479	1479	1479	1479	1479	



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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°	1.2	12.8	27.9	32.5	34.9
92.5°	34.9	41.8	48.8	52.3	50.0
95°	68.6	76.7	86.0	90.6	90.6
97.5°	112.7	118.5	125.5	131.3	130.1
100°	158.0	165.0	170.8	174.3	176.6
102.5°	210.3	213.8	221.9	225.4	224.2
105°	261.4	263.7	274.2	274.2	276.5
107.5°	321.8	323.0	327.7	331.1	330.0
110°	377.6	379.9	382.3	386.9	384.6



TEST NUMBER: P334659

CATALOG NUMBER: S123IP-S1195U835-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.7	436.9	436.9	442.7	442.7
115°	493.8	497.3	495.0	496.1	495.0
117.5°	553.1	554.2	551.9	551.9	548.4
120°	607.7	614.6	608.8	607.7	605.3
122.5°	664.6	669.2	666.9	663.4	659.9
125°	722.7	726.2	723.9	719.2	714.6
127.5°	776.1	783.1	780.8	773.8	769.2
130°	829.6	838.9	835.4	830.7	822.6
132.5°	883.0	892.3	890.0	884.2	878.4
135°	937.6	944.6	943.4	938.8	936.5
137.5°	987.6	993.4	996.9	991.1	987.6
140°	1039.9	1045.7	1046.9	1045.7	1037.6
142.5°	1087.5	1093.3	1095.7	1094.5	1088.7
145°	1137.5	1139.8	1143.3	1142.1	1137.5
147.5°	1180.5	1185.1	1188.6	1188.6	1181.6
150°	1225.8	1228.1	1230.4	1230.4	1223.5
152.5°	1263.0	1266.5	1267.6	1269.9	1264.1
155°	1302.5	1302.5	1303.6	1308.3	1300.1
157.5°	1336.2	1335.0	1336.2	1340.8	1333.8
160°	1367.5	1365.2	1365.2	1371.0	1366.4
162.5°	1395.4	1391.9	1393.1	1398.9	1390.8
165°	1418.7	1415.2	1415.2	1422.1	1414.0
167.5°	1438.4	1433.8	1434.9	1441.9	1434.9
170°	1454.7	1450.0	1450.0	1458.2	1450.0
172.5°	1467.5	1462.8	1462.8	1469.8	1461.6
175°	1475.6	1470.9	1470.9	1477.9	1469.8
177.5°	1480.2	1475.6	1475.6	1482.6	1474.4
180°	1479.1	1479.1	1479.1	1479.1	1479.1

(END OF REPORT)