

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: P334754

Luminaire Tested: **S123IP-S1195U940-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123IP-S1195U940-4F0-1E-UDD  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 1195 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

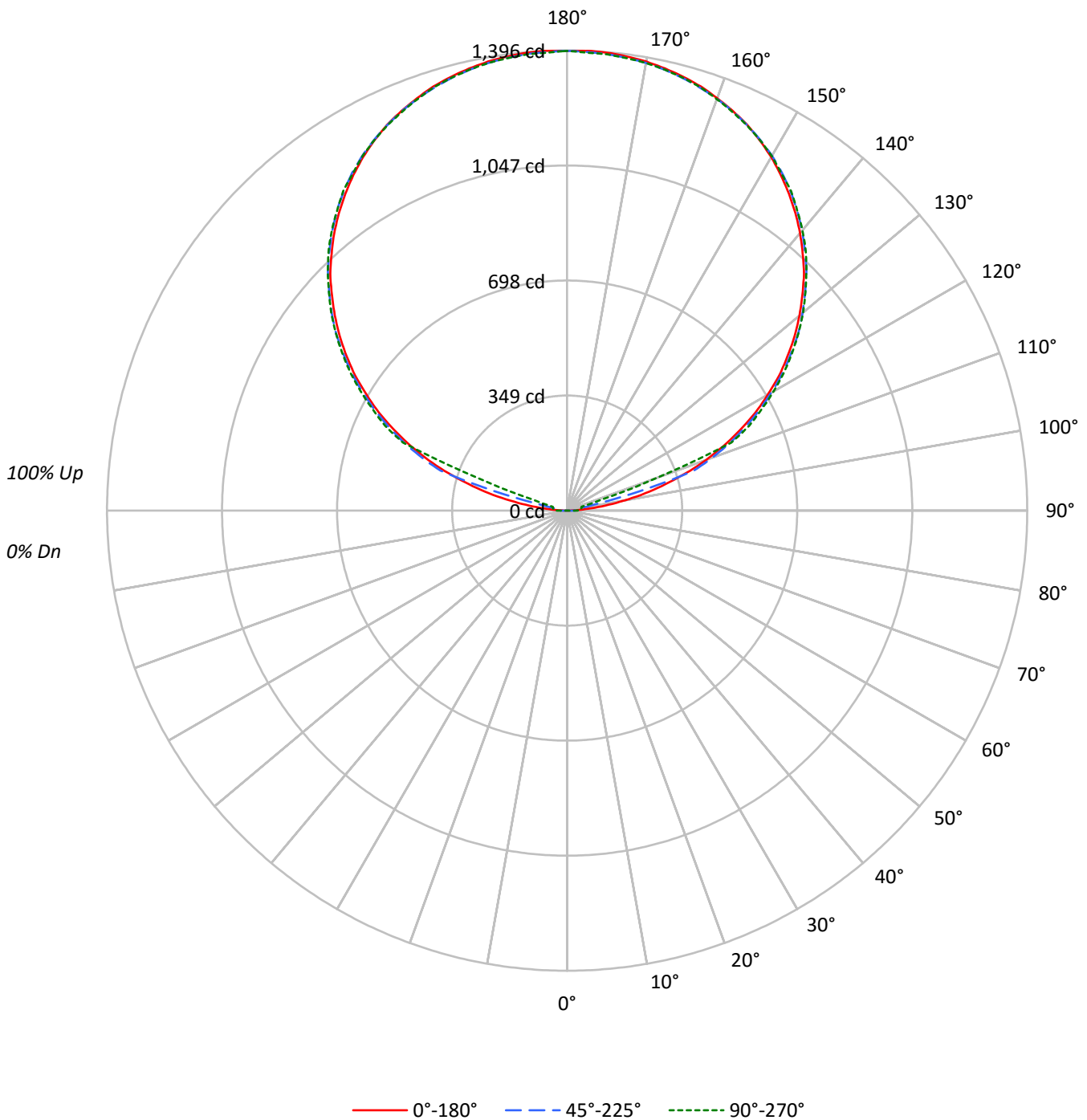
Lumens per Lamp: N/A  
Luminaire Lumens: 4253.9 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

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



TEST NUMBER: P334754  
CATALOG NUMBER: S123IP-S1195U940-4F0-1E-UDD

### Luminous Intensity Polar Plot





TEST NUMBER: P334754

CATALOG NUMBER: S123IP-S1195U940-4F0-1E-UDD

**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



TEST NUMBER: P334754

CATALOG NUMBER: S123IP-S1195U940-4F0-1E-UDD

**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°	2.8	0.1
90°-100°	49.2	1.2
100°-110°	237.8	5.6
110°-120°	582.6	13.7
120°-130°	739.6	17.4
130°-140°	790.1	18.6
140°-150°	738.8	17.4
150°-160°	595.9	14.0
160°-170°	384.6	9.0
170°-180°	132.5	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.8	0.1
90°-120°	869.5	20.4
90°-150°	3138.1	73.8
90°-180°	4251.0	99.9
0°-180°	4253.9	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	11	25	29	31	4
95°	63	21	32	39	39	75
105°	309	320	227	44	46	327
115°	579	585	595	605	609	572
125°	816	825	829	831	833	729
135°	1016	1022	1027	1030	1027	782
145°	1173	1180	1182	1184	1184	734
155°	1292	1290	1291	1296	1290	595
165°	1362	1359	1358	1366	1359	385
175°	1394	1389	1390	1398	1389	133
180°	1394	1394	1394	1394	1394	



TEST NUMBER: P334754

CATALOG NUMBER: S123IP-S1195U940-4F0-1E-UDD

**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	11.4	24.9	29.0	31.1
92.5°	23.8	17.6	26.9	34.2	35.2
95°	63.2	20.7	32.1	39.4	39.4
97.5°	115.0	86.0	33.2	41.4	42.5
100°	175.1	195.8	34.2	42.5	43.5
102.5°	243.5	256.9	76.7	42.5	44.5
105°	308.7	320.1	226.9	43.5	45.6
107.5°	378.1	387.5	403.0	243.5	107.7
110°	447.6	455.8	467.2	433.0	284.9



TEST NUMBER: P334754

CATALOG NUMBER: S123IP-S1195U940-4F0-1E-UDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	513.9	521.1	532.5	541.8	539.8
115°	579.1	585.3	594.7	605.0	609.2
117.5°	643.4	650.6	655.8	664.1	665.1
120°	702.4	711.7	714.8	723.1	723.1
122.5°	762.5	769.7	773.9	779.1	780.1
125°	816.4	824.7	828.8	830.9	832.9
127.5°	870.2	878.5	883.7	886.8	884.7
130°	920.0	928.3	932.4	936.5	934.5
132.5°	967.6	975.9	979.0	983.2	980.1
135°	1016.3	1022.5	1026.7	1029.8	1026.7
137.5°	1057.8	1066.0	1068.1	1073.3	1071.2
140°	1099.2	1105.4	1108.5	1112.7	1110.6
142.5°	1137.5	1143.7	1146.9	1150.0	1146.9
145°	1172.8	1180.0	1182.1	1184.1	1184.1
147.5°	1206.9	1212.1	1214.2	1216.3	1211.1
150°	1238.0	1241.1	1243.2	1245.3	1242.2
152.5°	1266.0	1267.0	1268.1	1272.2	1267.0
155°	1291.9	1289.8	1290.9	1296.0	1289.8
157.5°	1312.6	1312.6	1311.6	1317.8	1309.5
160°	1331.3	1330.2	1329.2	1335.4	1328.2
162.5°	1348.9	1345.8	1344.7	1352.0	1345.8
165°	1362.3	1359.2	1358.2	1366.5	1359.2
167.5°	1373.7	1369.6	1369.6	1377.9	1369.6
170°	1383.1	1378.9	1378.9	1387.2	1378.9
172.5°	1389.3	1384.1	1385.1	1393.4	1384.1
175°	1394.5	1389.3	1390.3	1397.6	1389.3
177.5°	1396.5	1391.3	1392.4	1400.7	1390.3
180°	1394.5	1394.5	1394.5	1394.5	1394.5

(END OF REPORT)