

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: P334783

Luminaire Tested: **S123IW-S1320U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334783
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: S123IW-S1320U935-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1320 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4545.8 lumens
Efficiency: N/A
Efficacy: 176.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

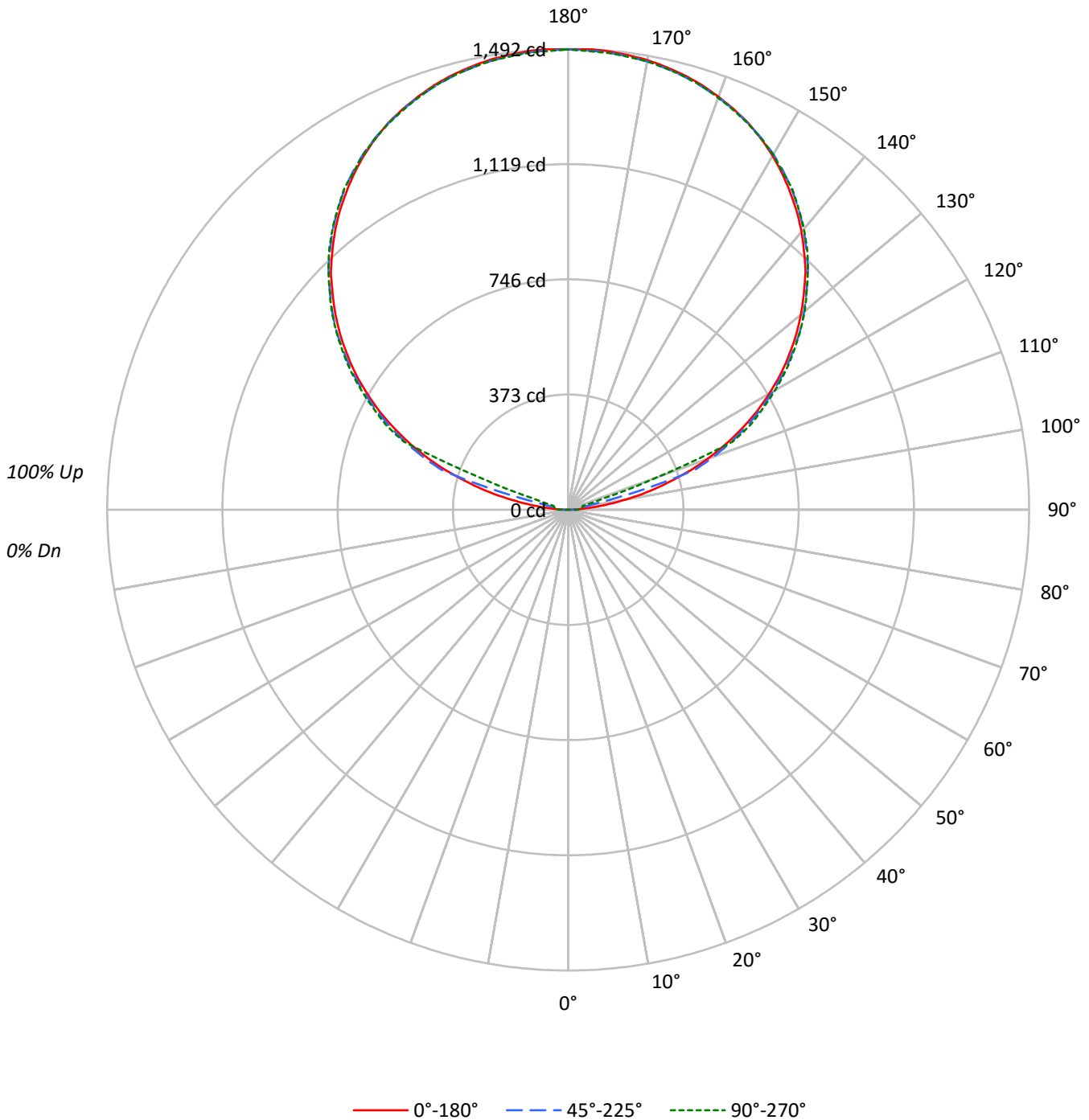
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.0	0.1
90°-100°	52.5	1.2
100°-110°	254.1	5.6
110°-120°	622.6	13.7
120°-130°	790.4	17.4
130°-140°	844.3	18.6
140°-150°	789.5	17.4
150°-160°	636.8	14.0
160°-170°	411.0	9.0
170°-180°	141.6	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.0	0.1
90°-120°	929.2	20.4
90°-150°	3353.4	73.8
90°-180°	4543.0	99.9
0°-180°	4545.8	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	27	31	33	4
95°	68	22	34	42	42	81
105°	330	342	242	46	49	350
115°	619	626	636	646	651	611
125°	872	881	886	888	890	779
135°	1086	1093	1097	1100	1097	836
145°	1253	1261	1263	1265	1265	785
155°	1381	1378	1379	1385	1378	636
165°	1456	1452	1451	1460	1452	411
175°	1490	1485	1486	1494	1485	142
180°	1490	1490	1490	1490	1490	



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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	12.2	26.6	31.0	33.2
92.5°	25.5	18.8	28.8	36.5	37.6
95°	67.5	22.1	34.3	42.1	42.1
97.5°	122.9	91.9	35.4	44.3	45.4
100°	187.1	209.2	36.5	45.4	46.5
102.5°	260.2	274.6	81.9	45.4	47.6
105°	329.9	342.1	242.5	46.5	48.7
107.5°	404.1	414.1	430.7	260.2	115.1
110°	478.3	487.1	499.3	462.8	304.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	549.1	556.9	569.0	579.0	576.8
115°	618.9	625.5	635.5	646.5	651.0
117.5°	687.5	695.3	700.8	709.6	710.8
120°	750.6	760.6	763.9	772.8	772.8
122.5°	814.8	822.6	827.0	832.5	833.6
125°	872.4	881.2	885.7	887.9	890.1
127.5°	930.0	938.8	944.4	947.7	945.5
130°	983.1	992.0	996.4	1000.8	998.6
132.5°	1034.0	1042.9	1046.2	1050.6	1047.3
135°	1086.1	1092.7	1097.1	1100.5	1097.1
137.5°	1130.3	1139.2	1141.4	1147.0	1144.7
140°	1174.6	1181.3	1184.6	1189.0	1186.8
142.5°	1215.6	1222.2	1225.6	1228.9	1225.6
145°	1253.2	1261.0	1263.2	1265.4	1265.4
147.5°	1289.8	1295.3	1297.5	1299.7	1294.2
150°	1323.0	1326.3	1328.5	1330.7	1327.4
152.5°	1352.9	1354.0	1355.1	1359.5	1354.0
155°	1380.6	1378.3	1379.4	1385.0	1378.3
157.5°	1402.7	1402.7	1401.6	1408.2	1399.4
160°	1422.6	1421.5	1420.4	1427.0	1419.3
162.5°	1441.4	1438.1	1437.0	1444.8	1438.1
165°	1455.8	1452.5	1451.4	1460.3	1452.5
167.5°	1468.0	1463.6	1463.6	1472.4	1463.6
170°	1478.0	1473.5	1473.5	1482.4	1473.5
172.5°	1484.6	1479.1	1480.2	1489.0	1479.1
175°	1490.2	1484.6	1485.7	1493.5	1484.6
177.5°	1492.4	1486.8	1487.9	1496.8	1485.7
180°	1490.2	1490.2	1490.2	1490.2	1490.2

(END OF REPORT)