

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: P334706

Luminaire Tested: **S123IW-S755U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334706  
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: S123IW-S755U930-4F0-1E-UDD-1  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 755 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2136.1 lumens  
Efficiency: N/A  
Efficacy: 152.6 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

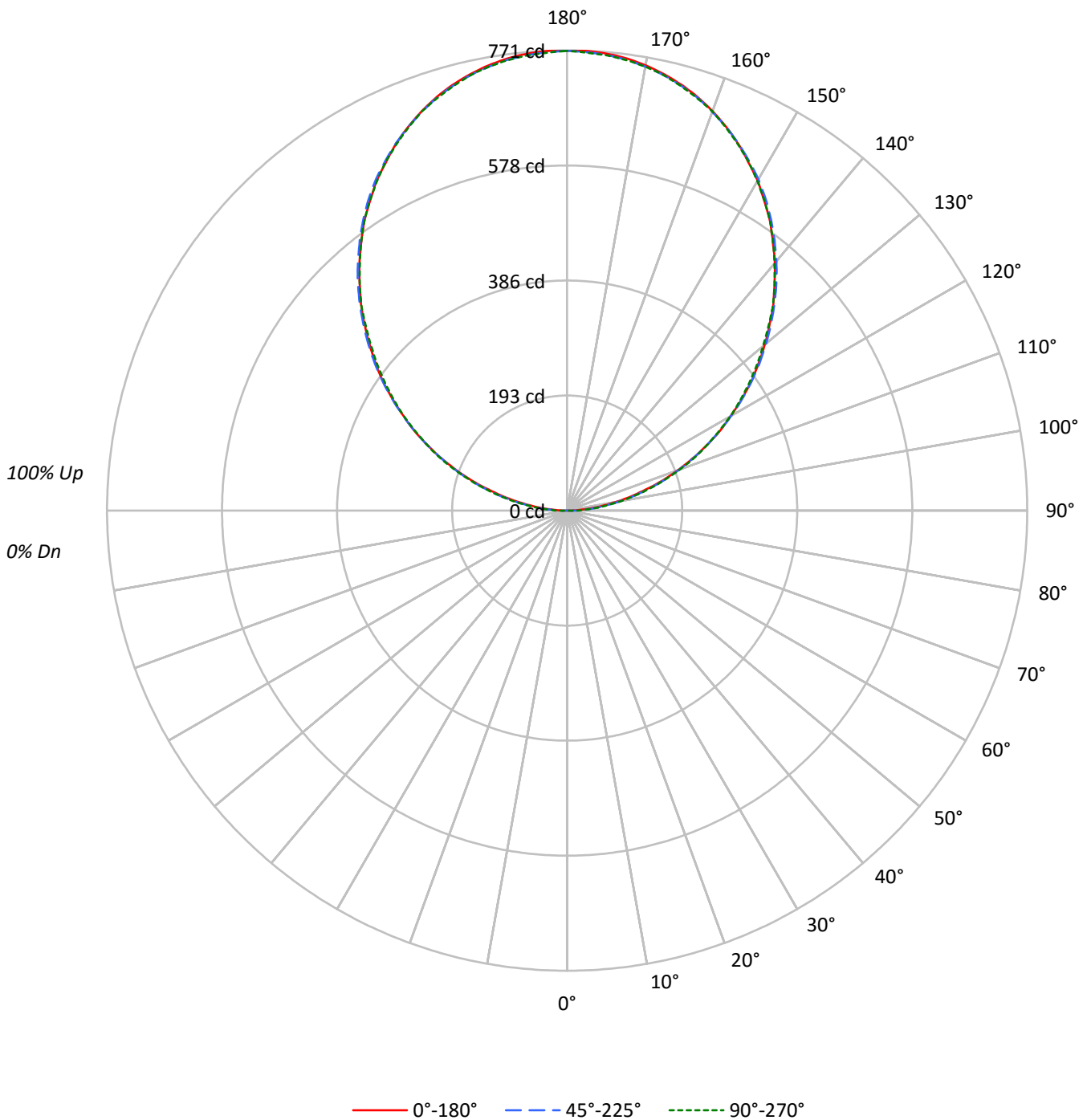
Input Watts (W): 14  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P334706

CATALOG NUMBER: S123IW-S755U930-4F0-1E-UDD-1

### Luminous Intensity Polar Plot





TEST NUMBER: P334706

CATALOG NUMBER: S123IW-S755U930-4F0-1E-UDD-1

**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: P334706

CATALOG NUMBER: S123IW-S755U930-4F0-1E-UDD-1

**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°	1.6	0.1
90°-100°	49.6	2.3
100°-110°	150.1	7.0
110°-120°	255.5	12.0
120°-130°	336.2	15.7
130°-140°	377.8	17.7
140°-150°	371.5	17.4
150°-160°	312.7	14.6
160°-170°	208.2	9.7
170°-180°	72.9	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.1
90°-120°	455.2	21.3
90°-150°	1540.7	72.1
90°-180°	2135.0	99.9
0°-180°	2136.1	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	7	14	17	18	3
95°	36	40	45	47	47	39
105°	136	137	143	143	144	146
115°	257	259	258	258	258	255
125°	376	378	377	375	372	336
135°	488	492	491	489	488	376
145°	592	594	596	595	592	370
155°	678	678	679	681	677	312
165°	739	737	737	741	736	208
175°	768	766	766	770	766	73
180°	770	770	770	770	770	



TEST NUMBER: P334706

CATALOG NUMBER: S123IW-S755U930-4F0-1E-UDD-1

**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°	0.6	6.7	14.5	16.9	18.2
92.5°	18.2	21.8	25.4	27.2	26.0
95°	35.7	39.9	44.8	47.2	47.2
97.5°	58.7	61.7	65.4	68.4	67.8
100°	82.3	85.9	89.0	90.8	92.0
102.5°	109.5	111.3	115.6	117.4	116.8
105°	136.2	137.4	142.8	142.8	144.0
107.5°	167.6	168.2	170.7	172.5	171.9
110°	196.7	197.9	199.1	201.5	200.3



TEST NUMBER: P334706

CATALOG NUMBER: S123IW-S755U930-4F0-1E-UDD-1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	226.9	227.5	227.5	230.6	230.6
115°	257.2	259.0	257.8	258.4	257.8
117.5°	288.1	288.7	287.4	287.4	285.6
120°	316.5	320.1	317.1	316.5	315.3
122.5°	346.1	348.6	347.4	345.5	343.7
125°	376.4	378.2	377.0	374.6	372.2
127.5°	404.2	407.9	406.7	403.0	400.6
130°	432.1	436.9	435.1	432.7	428.4
132.5°	459.9	464.8	463.5	460.5	457.5
135°	488.4	492.0	491.4	489.0	487.7
137.5°	514.4	517.4	519.2	516.2	514.4
140°	541.6	544.6	545.2	544.6	540.4
142.5°	566.4	569.4	570.7	570.0	567.0
145°	592.4	593.7	595.5	594.9	592.4
147.5°	614.8	617.3	619.1	619.1	615.4
150°	638.4	639.6	640.9	640.9	637.2
152.5°	657.8	659.6	660.2	661.4	658.4
155°	678.4	678.4	679.0	681.4	677.2
157.5°	695.9	695.3	695.9	698.3	694.7
160°	712.3	711.0	711.0	714.1	711.7
162.5°	726.8	725.0	725.6	728.6	724.4
165°	738.9	737.1	737.1	740.7	736.5
167.5°	749.2	746.8	747.4	751.0	747.4
170°	757.6	755.2	755.2	759.5	755.2
172.5°	764.3	761.9	761.9	765.5	761.3
175°	768.5	766.1	766.1	769.7	765.5
177.5°	771.0	768.5	768.5	772.2	767.9
180°	770.4	770.4	770.4	770.4	770.4

(END OF REPORT)