

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: P334712

Luminaire Tested: **S123IW-S1030U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334712
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-S1030U935-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1030 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3079.1 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

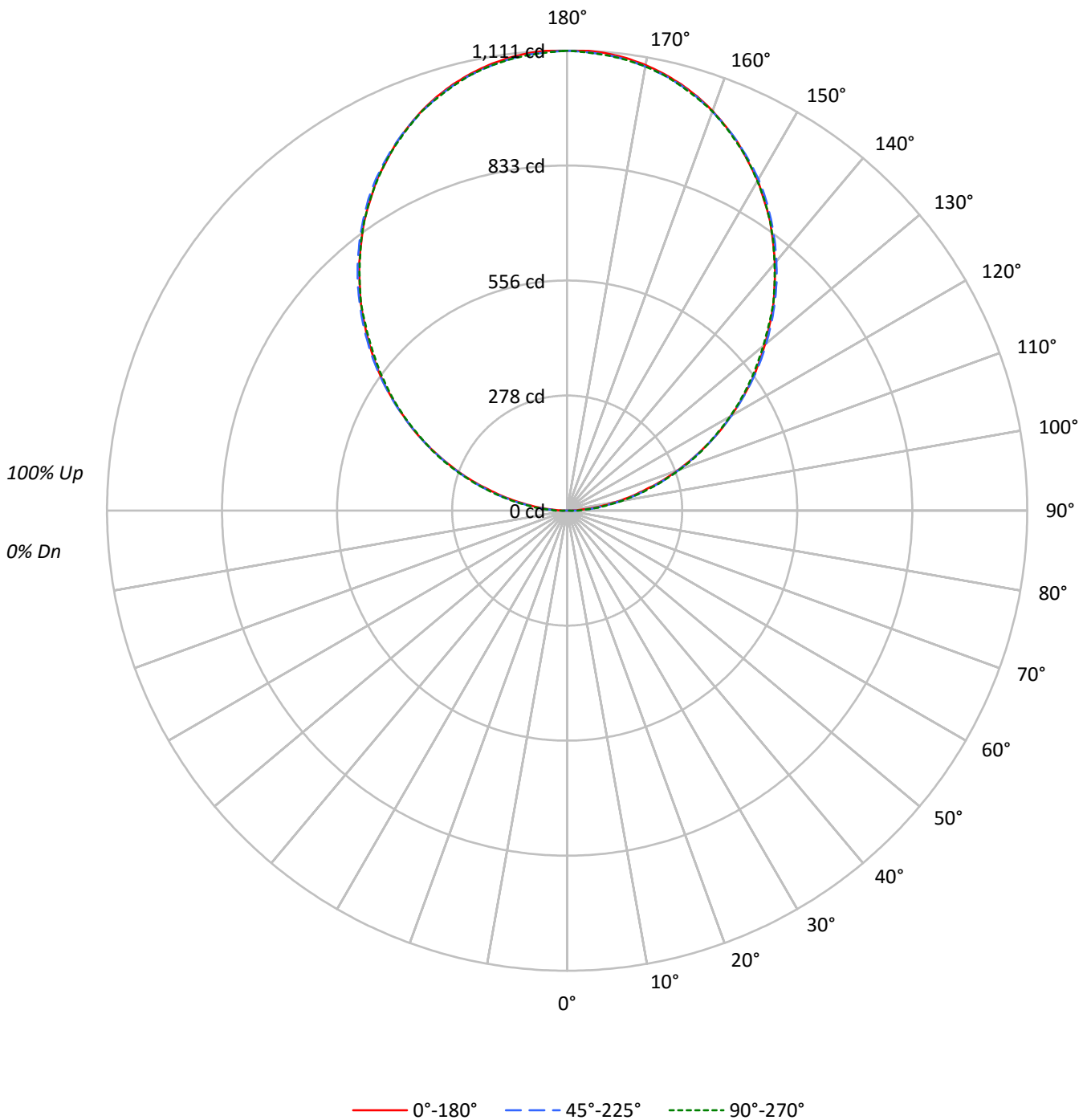
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2.3	0.1
90°-100°	71.5	2.3
100°-110°	216.4	7.0
110°-120°	368.3	12.0
120°-130°	484.5	15.7
130°-140°	544.6	17.7
140°-150°	535.5	17.4
150°-160°	450.8	14.6
160°-170°	300.1	9.7
170°-180°	105.1	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.1
90°-120°	656.1	21.3
90°-150°	2220.8	72.1
90°-180°	3077.0	99.9
0°-180°	3079.1	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	10	21	24	26	4
95°	52	58	64	68	68	57
105°	196	198	206	206	208	210
115°	371	373	372	372	372	367
125°	543	545	543	540	536	484
135°	704	709	708	705	703	542
145°	854	856	858	858	854	533
155°	978	978	979	982	976	450
165°	1065	1062	1062	1068	1062	300
175°	1108	1104	1104	1110	1103	105
180°	1110	1110	1110	1110	1110	



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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°	0.9	9.6	20.9	24.4	26.2
92.5°	26.2	31.4	36.6	39.3	37.5
95°	51.5	57.6	64.5	68.0	68.0
97.5°	84.6	89.0	94.2	98.6	97.7
100°	118.6	123.9	128.2	130.8	132.6
102.5°	157.9	160.5	166.6	169.2	168.4
105°	196.3	198.0	205.9	205.9	207.6
107.5°	241.6	242.5	246.0	248.6	247.7
110°	283.5	285.2	287.0	290.5	288.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	327.1	328.0	328.0	332.3	332.3
115°	370.7	373.3	371.6	372.5	371.6
117.5°	415.2	416.1	414.3	414.3	411.7
120°	456.2	461.4	457.1	456.2	454.5
122.5°	499.0	502.4	500.7	498.1	495.5
125°	542.6	545.2	543.4	539.9	536.5
127.5°	582.7	587.9	586.2	580.9	577.5
130°	622.8	629.8	627.2	623.7	617.6
132.5°	662.9	669.9	668.2	663.8	659.5
135°	703.9	709.2	708.3	704.8	703.1
137.5°	741.4	745.8	748.4	744.1	741.4
140°	780.7	785.1	785.9	785.1	779.0
142.5°	816.5	820.8	822.6	821.7	817.3
145°	854.0	855.7	858.3	857.5	854.0
147.5°	886.2	889.7	892.4	892.4	887.1
150°	920.3	922.0	923.8	923.8	918.5
152.5°	948.2	950.8	951.7	953.4	949.1
155°	977.8	977.8	978.7	982.2	976.1
157.5°	1003.1	1002.3	1003.1	1006.6	1001.4
160°	1026.7	1024.9	1024.9	1029.3	1025.8
162.5°	1047.6	1045.0	1045.9	1050.2	1044.1
165°	1065.1	1062.5	1062.5	1067.7	1061.6
167.5°	1079.9	1076.4	1077.3	1082.5	1077.3
170°	1092.1	1088.6	1088.6	1094.7	1088.6
172.5°	1101.7	1098.2	1098.2	1103.4	1097.3
175°	1107.8	1104.3	1104.3	1109.6	1103.4
177.5°	1111.3	1107.8	1107.8	1113.0	1106.9
180°	1110.4	1110.4	1110.4	1110.4	1110.4

(END OF REPORT)