

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: P334772

Luminaire Tested: **S123IW-S1030U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334772
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-S1030U927-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1030 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3267.1 lumens
Efficiency: N/A
Efficacy: 166.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

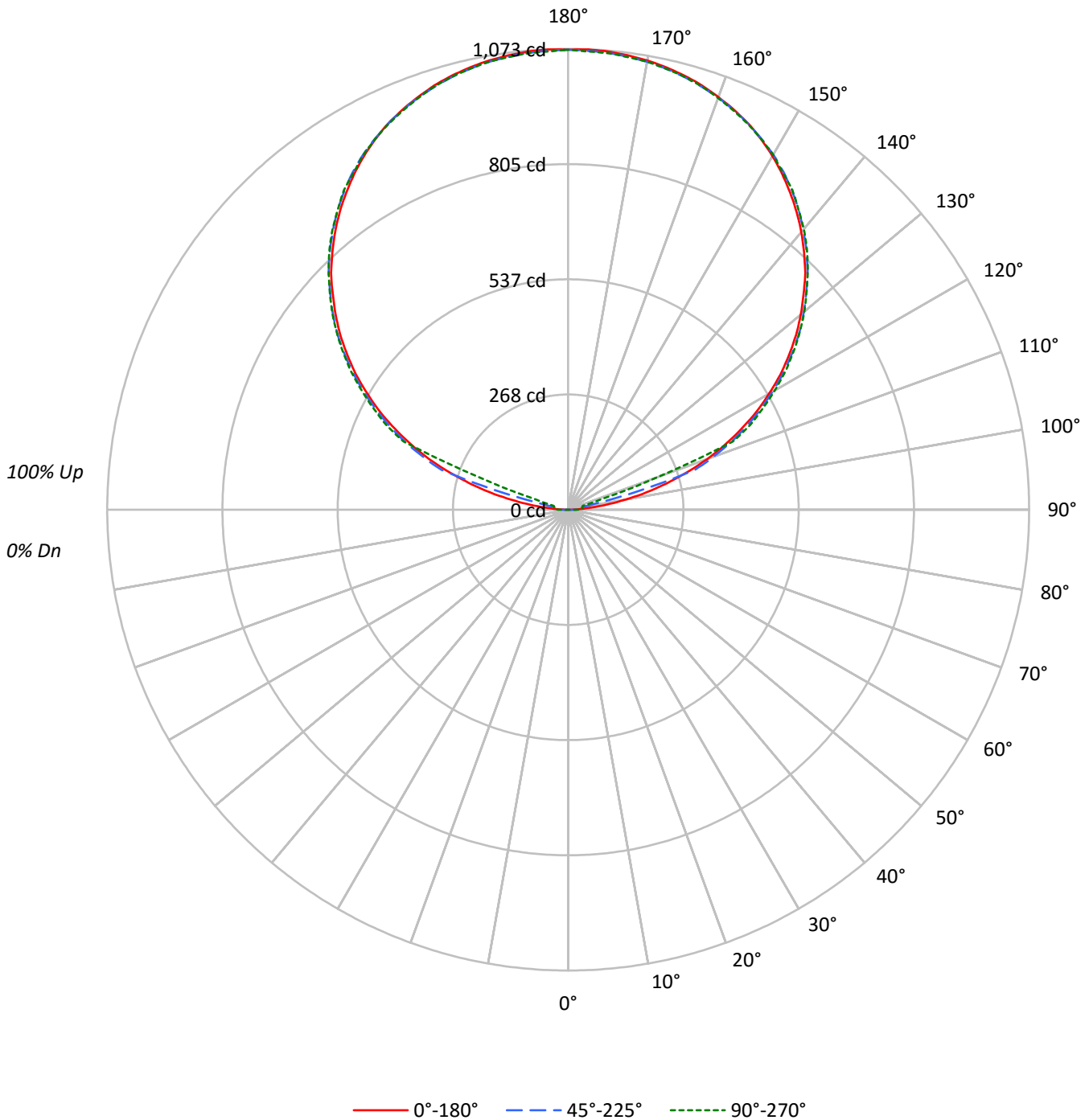
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.1	0.1
90°-100°	37.8	1.2
100°-110°	182.6	5.6
110°-120°	447.5	13.7
120°-130°	568.0	17.4
130°-140°	606.8	18.6
140°-150°	567.4	17.4
150°-160°	457.7	14.0
160°-170°	295.4	9.0
170°-180°	101.8	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.1	0.1
90°-120°	667.8	20.4
90°-150°	2410.1	73.8
90°-180°	3265.0	99.9
0°-180°	3267.1	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	9	19	22	24	3
95°	48	16	25	30	30	58
105°	237	246	174	33	35	251
115°	445	450	457	465	468	439
125°	627	633	636	638	640	560
135°	781	785	788	791	788	601
145°	901	906	908	910	910	564
155°	992	991	991	995	991	457
165°	1046	1044	1043	1050	1044	296
175°	1071	1067	1068	1073	1067	102
180°	1071	1071	1071	1071	1071	



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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°	0.8	8.8	19.1	22.3	23.9
92.5°	18.3	13.5	20.7	26.3	27.1
95°	48.5	15.9	24.7	30.2	30.2
97.5°	88.3	66.0	25.5	31.8	32.6
100°	134.5	150.4	26.3	32.6	33.4
102.5°	187.0	197.3	58.9	32.6	34.2
105°	237.1	245.9	174.3	33.4	35.0
107.5°	290.4	297.6	309.5	187.0	82.7
110°	343.7	350.1	358.8	332.6	218.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	394.7	400.2	409.0	416.1	414.5
115°	444.8	449.6	456.7	464.7	467.9
117.5°	494.1	499.7	503.7	510.0	510.8
120°	539.5	546.6	549.0	555.4	555.4
122.5°	585.6	591.2	594.4	598.3	599.1
125°	627.0	633.4	636.5	638.1	639.7
127.5°	668.4	674.7	678.7	681.1	679.5
130°	706.6	712.9	716.1	719.3	717.7
132.5°	743.2	749.5	751.9	755.1	752.7
135°	780.6	785.3	788.5	790.9	788.5
137.5°	812.4	818.7	820.3	824.3	822.7
140°	844.2	849.0	851.4	854.6	853.0
142.5°	873.6	878.4	880.8	883.2	880.8
145°	900.7	906.3	907.9	909.5	909.5
147.5°	927.0	930.9	932.5	934.1	930.1
150°	950.8	953.2	954.8	956.4	954.0
152.5°	972.3	973.1	973.9	977.1	973.1
155°	992.2	990.6	991.4	995.4	990.6
157.5°	1008.1	1008.1	1007.3	1012.1	1005.7
160°	1022.4	1021.6	1020.8	1025.6	1020.1
162.5°	1036.0	1033.6	1032.8	1038.4	1033.6
165°	1046.3	1043.9	1043.1	1049.5	1043.9
167.5°	1055.1	1051.9	1051.9	1058.2	1051.9
170°	1062.2	1059.0	1059.0	1065.4	1059.0
172.5°	1067.0	1063.0	1063.8	1070.2	1063.0
175°	1071.0	1067.0	1067.8	1073.4	1067.0
177.5°	1072.6	1068.6	1069.4	1075.7	1067.8
180°	1071.0	1071.0	1071.0	1071.0	1071.0

(END OF REPORT)