

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: P334591

Luminaire Tested: **S122IW-S710U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IW-S710U840-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 710 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

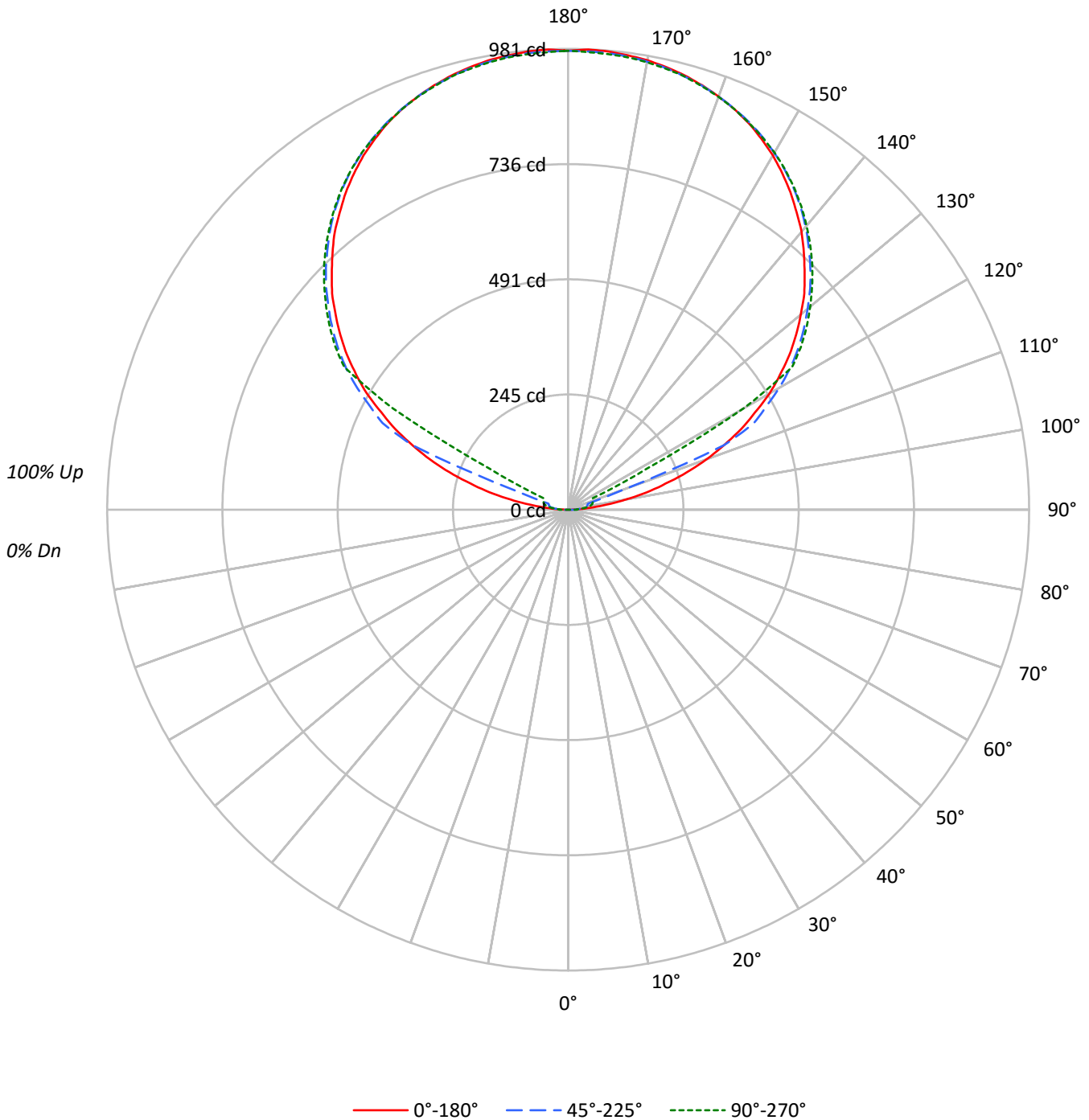
Lumens per Lamp: N/A
Luminaire Lumens: 2866.0 lumens
Efficiency: N/A
Efficacy: 204.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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: P334591
CATALOG NUMBER: S122IW-S710U840-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334591

CATALOG NUMBER: S122IW-S710U840-4F0-1E-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: P334591

CATALOG NUMBER: S122IW-S710U840-4F0-1E-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°	1.7	0.1
90°-100°	32.2	1.1
100°-110°	120.1	4.2
110°-120°	318.5	11.1
120°-130°	528.3	18.4
130°-140°	561.1	19.6
140°-150°	521.5	18.2
150°-160°	419.3	14.6
160°-170°	270.2	9.4
170°-180°	93.0	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.7	0.1
90°-120°	470.8	16.4
90°-150°	2081.8	72.6
90°-180°	2864.0	99.9
0°-180°	2866.0	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	8	14	18	19	3
95°	46	23	28	31	30	54
105°	215	236	43	51	54	230
115°	406	418	436	109	58	400
125°	575	584	597	602	604	513
135°	711	722	729	736	734	549
145°	825	824	836	841	838	516
155°	908	902	911	915	909	419
165°	957	953	955	960	955	270
175°	979	974	976	981	974	93
180°	977	977	977	977	977	



TEST NUMBER: P334591

CATALOG NUMBER: S122IW-S710U840-4F0-1E-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°	0.7	8.5	14.1	17.7	19.1
92.5°	17.7	14.8	17.0	18.4	19.1
95°	46.0	22.6	27.6	31.1	30.4
97.5°	82.7	24.7	36.1	38.2	38.9
100°	125.1	28.3	40.3	46.0	47.4
102.5°	171.8	170.4	41.7	49.5	51.6
105°	214.9	236.1	43.1	50.9	53.7
107.5°	265.1	282.8	44.5	52.3	55.1
110°	313.2	328.0	123.7	53.0	55.8



TEST NUMBER: P334591

CATALOG NUMBER: S122IW-S710U840-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	358.4	371.2	359.1	54.4	56.6
115°	406.5	418.5	436.2	108.9	58.0
117.5°	448.2	462.4	474.4	373.3	188.1
120°	494.9	505.5	518.2	526.7	431.2
122.5°	534.5	545.8	559.9	564.2	564.9
125°	574.8	583.9	597.4	602.3	604.5
127.5°	611.5	621.4	632.0	639.1	639.8
130°	646.2	657.5	665.2	673.0	672.3
132.5°	681.5	690.7	698.5	704.8	704.1
135°	711.2	722.5	728.9	735.9	734.5
137.5°	742.3	750.8	757.9	764.9	762.8
140°	772.7	778.4	786.1	792.5	789.0
142.5°	798.2	803.1	812.3	818.0	814.4
145°	825.0	824.3	836.3	841.3	837.7
147.5°	848.4	846.2	858.2	861.8	859.0
150°	871.0	866.0	877.3	881.6	878.0
152.5°	890.1	884.4	895.0	899.3	894.3
155°	908.4	902.1	910.6	914.8	909.1
157.5°	923.3	917.6	924.0	928.9	923.3
160°	936.0	931.8	936.0	940.3	935.3
162.5°	947.3	943.1	946.6	951.6	945.2
165°	957.2	953.0	955.1	960.1	955.1
167.5°	965.0	960.8	962.9	967.8	961.5
170°	971.4	967.1	968.5	973.5	967.1
172.5°	975.6	971.4	972.8	977.7	971.4
175°	979.1	974.2	975.6	980.6	973.5
177.5°	980.6	975.6	976.3	981.3	974.9
180°	977.0	977.0	977.0	977.0	977.0

(END OF REPORT)