

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: P334601

Luminaire Tested: **S122IW-S710U930-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334601  
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-S710U930-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 710 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

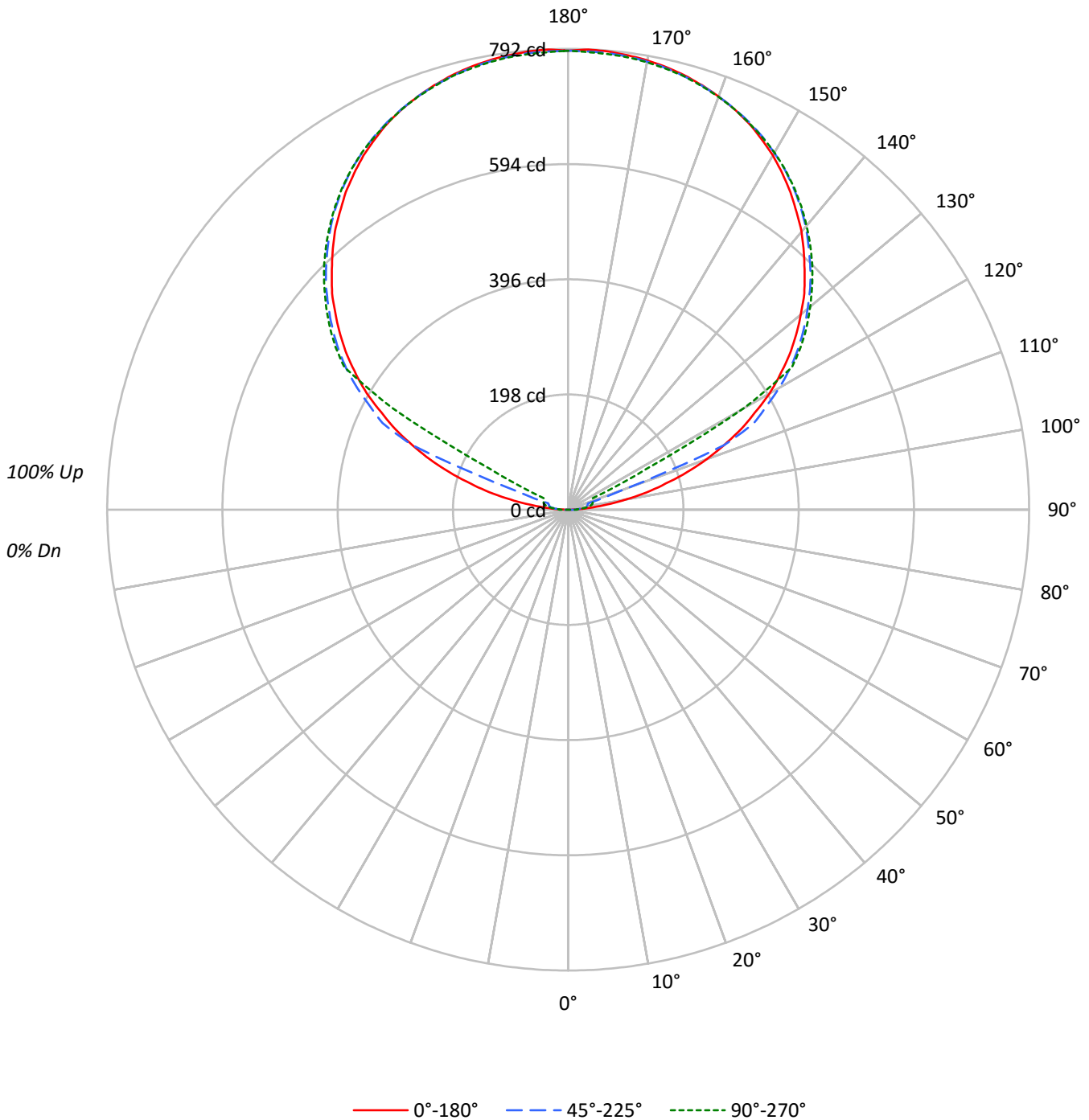
Lumens per Lamp: N/A  
Luminaire Lumens: 2313.8 lumens  
Efficiency: N/A  
Efficacy: 165.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

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



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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°	1.4	0.1
90°-100°	26.0	1.1
100°-110°	97.0	4.2
110°-120°	257.2	11.1
120°-130°	426.5	18.4
130°-140°	453.0	19.6
140°-150°	421.1	18.2
150°-160°	338.5	14.6
160°-170°	218.1	9.4
170°-180°	75.1	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.4	0.1
90°-120°	380.1	16.4
90°-150°	1680.7	72.6
90°-180°	2312.0	99.9
0°-180°	2313.8	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	7	11	14	15	2
95°	37	18	22	25	24	44
105°	174	191	35	41	43	185
115°	328	338	352	88	47	323
125°	464	471	482	486	488	414
135°	574	583	588	594	593	444
145°	666	666	675	679	676	417
155°	733	728	735	739	734	338
165°	773	769	771	775	771	218
175°	790	786	788	792	786	75
180°	789	789	789	789	789	



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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°	0.6	6.8	11.4	14.3	15.4
92.5°	14.3	12.0	13.7	14.8	15.4
95°	37.1	18.3	22.3	25.1	24.5
97.5°	66.8	20.0	29.1	30.8	31.4
100°	101.0	22.8	32.5	37.1	38.2
102.5°	138.7	137.6	33.7	40.0	41.7
105°	173.5	190.6	34.8	41.1	43.4
107.5°	214.0	228.3	36.0	42.2	44.5
110°	252.8	264.8	99.9	42.8	45.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	289.4	299.6	289.9	43.9	45.7
115°	328.2	337.9	352.2	87.9	46.8
117.5°	361.9	373.3	383.0	301.4	151.8
120°	399.5	408.1	418.4	425.2	348.2
122.5°	431.5	440.6	452.0	455.5	456.0
125°	464.0	471.4	482.3	486.3	488.0
127.5°	493.7	501.7	510.3	516.0	516.5
130°	521.7	530.8	537.1	543.4	542.8
132.5°	550.2	557.6	563.9	569.0	568.5
135°	574.2	583.3	588.4	594.2	593.0
137.5°	599.3	606.1	611.8	617.6	615.8
140°	623.8	628.4	634.7	639.8	637.0
142.5°	644.4	648.4	655.8	660.4	657.5
145°	666.1	665.5	675.2	679.2	676.3
147.5°	684.9	683.2	692.9	695.7	693.5
150°	703.2	699.2	708.3	711.7	708.9
152.5°	718.6	714.0	722.6	726.0	722.0
155°	733.4	728.3	735.1	738.6	734.0
157.5°	745.4	740.8	746.0	750.0	745.4
160°	755.7	752.3	755.7	759.1	755.1
162.5°	764.8	761.4	764.2	768.2	763.1
165°	772.8	769.4	771.1	775.1	771.1
167.5°	779.1	775.7	777.4	781.4	776.2
170°	784.2	780.8	781.9	785.9	780.8
172.5°	787.6	784.2	785.4	789.4	784.2
175°	790.5	786.5	787.6	791.6	785.9
177.5°	791.6	787.6	788.2	792.2	787.1
180°	788.8	788.8	788.8	788.8	788.8

(END OF REPORT)