

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: P334611

Luminaire Tested: **S122IW-S710U940-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334611  
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-S710U940-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 710 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

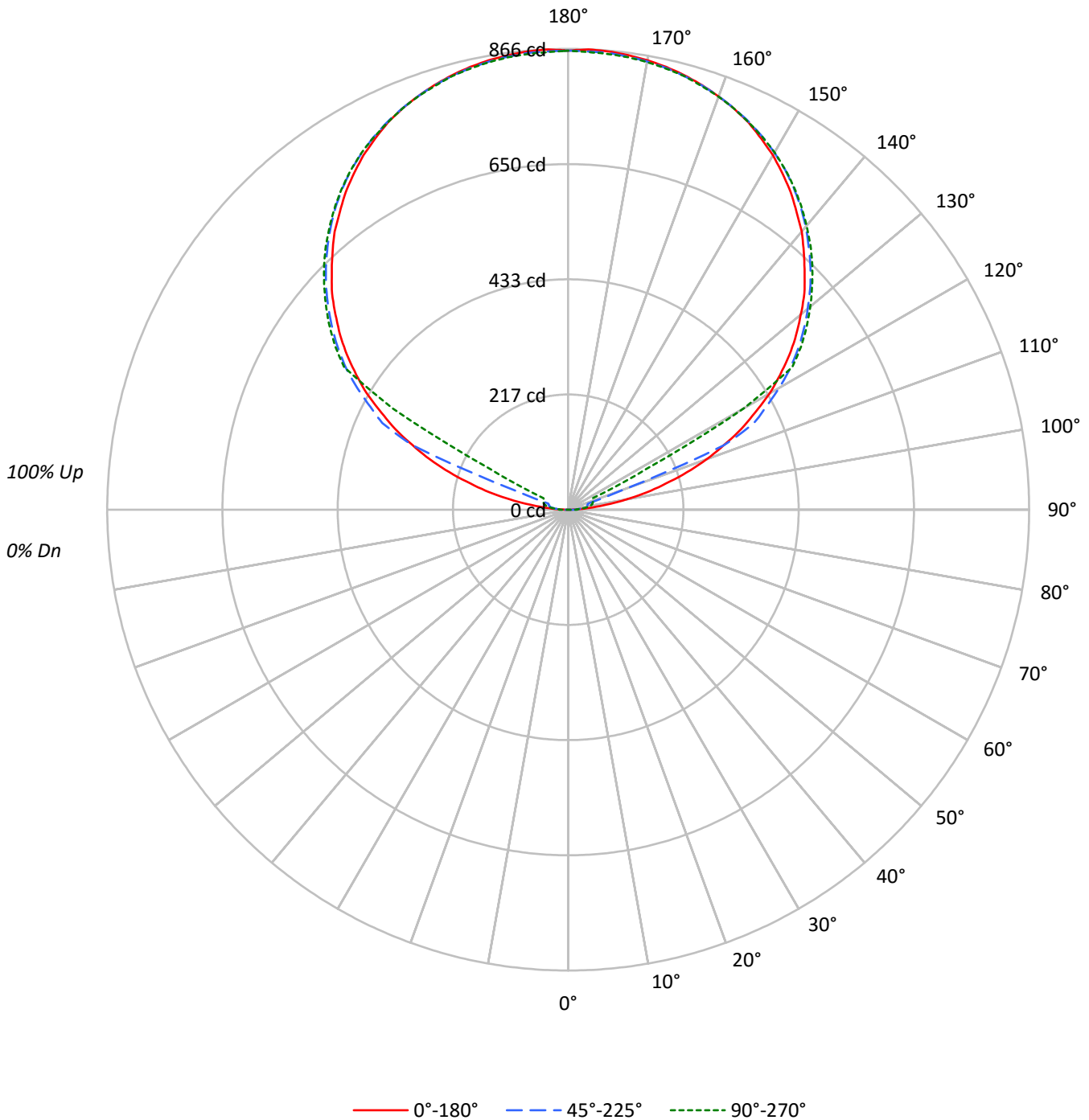
Lumens per Lamp: N/A  
Luminaire Lumens: 2530.7 lumens  
Efficiency: N/A  
Efficacy: 180.8 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

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°	1.5	0.1
90°-100°	28.4	1.1
100°-110°	106.0	4.2
110°-120°	281.3	11.1
120°-130°	466.5	18.4
130°-140°	495.5	19.6
140°-150°	460.5	18.2
150°-160°	370.2	14.6
160°-170°	238.6	9.4
170°-180°	82.1	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.1
90°-120°	415.7	16.4
90°-150°	1838.2	72.6
90°-180°	2529.0	99.9
0°-180°	2530.7	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	12	16	17	2
95°	41	20	24	28	27	48
105°	190	208	38	45	47	203
115°	359	370	385	96	51	353
125°	508	516	528	532	534	453
135°	628	638	644	650	649	485
145°	728	728	738	743	740	456
155°	802	796	804	808	803	370
165°	845	842	843	848	843	239
175°	865	860	862	866	860	82
180°	863	863	863	863	863	



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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	7.5	12.5	15.6	16.9
92.5°	15.6	13.1	15.0	16.2	16.9
95°	40.6	20.0	24.3	27.5	26.8
97.5°	73.0	21.8	31.8	33.7	34.3
100°	110.5	25.0	35.6	40.6	41.8
102.5°	151.7	150.4	36.8	43.7	45.6
105°	189.8	208.5	38.1	44.9	47.4
107.5°	234.1	249.7	39.3	46.2	48.7
110°	276.5	289.6	109.2	46.8	49.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	316.5	327.7	317.1	48.1	49.9
115°	358.9	369.6	385.2	96.1	51.2
117.5°	395.8	408.3	418.9	329.6	166.0
120°	437.0	446.3	457.6	465.1	380.8
122.5°	471.9	481.9	494.4	498.1	498.8
125°	507.5	515.6	527.5	531.9	533.7
127.5°	540.0	548.7	558.1	564.3	564.9
130°	570.6	580.5	587.4	594.3	593.7
132.5°	601.8	609.9	616.8	622.4	621.7
135°	628.0	638.0	643.6	649.8	648.6
137.5°	655.5	662.9	669.2	675.4	673.6
140°	682.3	687.3	694.2	699.8	696.7
142.5°	704.8	709.1	717.3	722.3	719.1
145°	728.5	727.9	738.5	742.9	739.7
147.5°	749.1	747.2	757.8	761.0	758.5
150°	769.1	764.7	774.7	778.4	775.3
152.5°	785.9	780.9	790.3	794.0	789.7
155°	802.2	796.5	804.0	807.8	802.8
157.5°	815.3	810.3	815.9	820.3	815.3
160°	826.5	822.8	826.5	830.2	825.9
162.5°	836.5	832.7	835.9	840.2	834.6
165°	845.2	841.5	843.4	847.7	843.4
167.5°	852.1	848.3	850.2	854.6	849.0
170°	857.7	854.0	855.2	859.6	854.0
172.5°	861.5	857.7	859.0	863.3	857.7
175°	864.6	860.2	861.5	865.8	859.6
177.5°	865.8	861.5	862.1	866.5	860.8
180°	862.7	862.7	862.7	862.7	862.7

(END OF REPORT)