

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: P334581

Luminaire Tested: **S122IW-S710U830-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334581  
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-S710U830-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 710 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

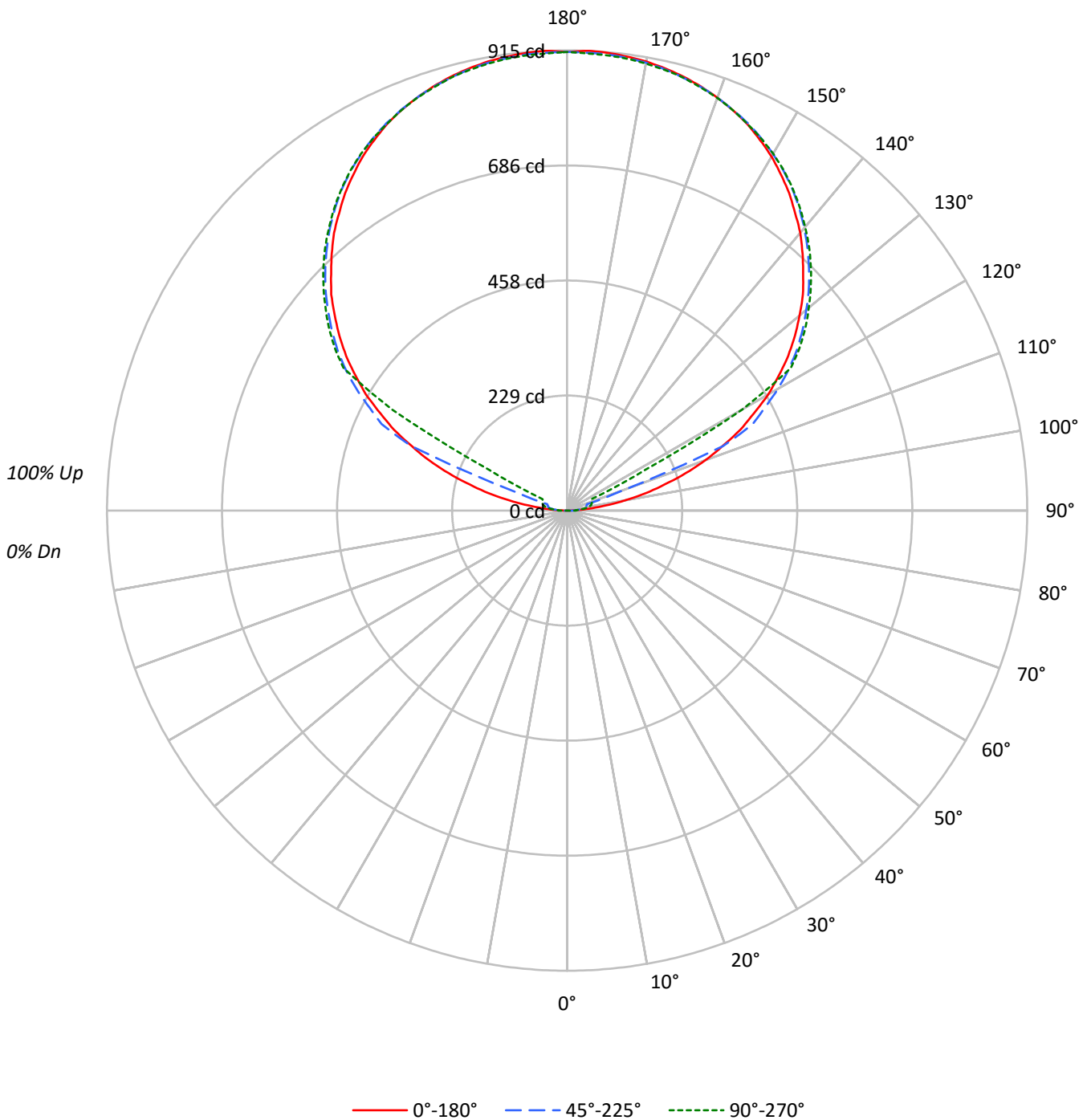
Lumens per Lamp: N/A  
Luminaire Lumens: 2674.9 lumens  
Efficiency: N/A  
Efficacy: 191.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 14  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	1.6	0.1
90°-100°	30.1	1.1
100°-110°	112.1	4.2
110°-120°	297.3	11.1
120°-130°	493.1	18.4
130°-140°	523.7	19.6
140°-150°	486.8	18.2
150°-160°	391.3	14.6
160°-170°	252.2	9.4
170°-180°	86.8	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.1
90°-120°	439.4	16.4
90°-150°	1943.0	72.6
90°-180°	2673.0	99.9
0°-180°	2674.9	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	13	16	18	2
95°	43	21	26	29	28	51
105°	201	220	40	48	50	214
115°	379	391	407	102	54	373
125°	536	545	558	562	564	478
135°	664	674	680	687	686	513
145°	770	769	781	785	782	482
155°	848	842	850	854	848	391
165°	893	890	891	896	891	252
175°	914	909	911	915	909	87
180°	912	912	912	912	912	



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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°	0.7	7.9	13.2	16.5	17.8
92.5°	16.5	13.9	15.8	17.2	17.8
95°	42.9	21.1	25.7	29.0	28.4
97.5°	77.2	23.1	33.7	35.6	36.3
100°	116.8	26.4	37.6	42.9	44.2
102.5°	160.3	159.0	38.9	46.2	48.2
105°	200.6	220.4	40.2	47.5	50.1
107.5°	247.4	263.9	41.6	48.8	51.5
110°	292.3	306.2	115.5	49.5	52.1



TEST NUMBER: P334581

CATALOG NUMBER: S122IW-S710U830-4F0-1E-UDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	334.5	346.4	335.2	50.8	52.8
115°	379.4	390.6	407.1	101.6	54.1
117.5°	418.3	431.5	442.7	348.4	175.5
120°	461.9	471.8	483.7	491.6	402.5
122.5°	498.8	509.4	522.6	526.5	527.2
125°	536.4	545.0	557.6	562.2	564.2
127.5°	570.8	580.0	589.9	596.5	597.1
130°	603.1	613.6	620.9	628.2	627.5
132.5°	636.1	644.7	651.9	657.9	657.2
135°	663.8	674.3	680.3	686.9	685.6
137.5°	692.8	700.7	707.3	713.9	712.0
140°	721.2	726.5	733.7	739.7	736.4
142.5°	744.9	749.6	758.1	763.4	760.1
145°	770.0	769.4	780.6	785.2	781.9
147.5°	791.8	789.8	801.0	804.3	801.7
150°	812.9	808.3	818.8	822.8	819.5
152.5°	830.7	825.4	835.3	839.3	834.7
155°	847.9	841.9	849.9	853.8	848.5
157.5°	861.7	856.5	862.4	867.0	861.7
160°	873.6	869.7	873.6	877.6	873.0
162.5°	884.2	880.2	883.5	888.1	882.2
165°	893.4	889.5	891.4	896.0	891.4
167.5°	900.7	896.7	898.7	903.3	897.4
170°	906.6	902.6	904.0	908.6	902.6
172.5°	910.6	906.6	907.9	912.5	906.6
175°	913.9	909.2	910.6	915.2	908.6
177.5°	915.2	910.6	911.2	915.8	909.9
180°	911.9	911.9	911.9	911.9	911.9

(END OF REPORT)