

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: P334597

Luminaire Tested: **S122IW-S970U927-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334597  
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-S970U927-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 970 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

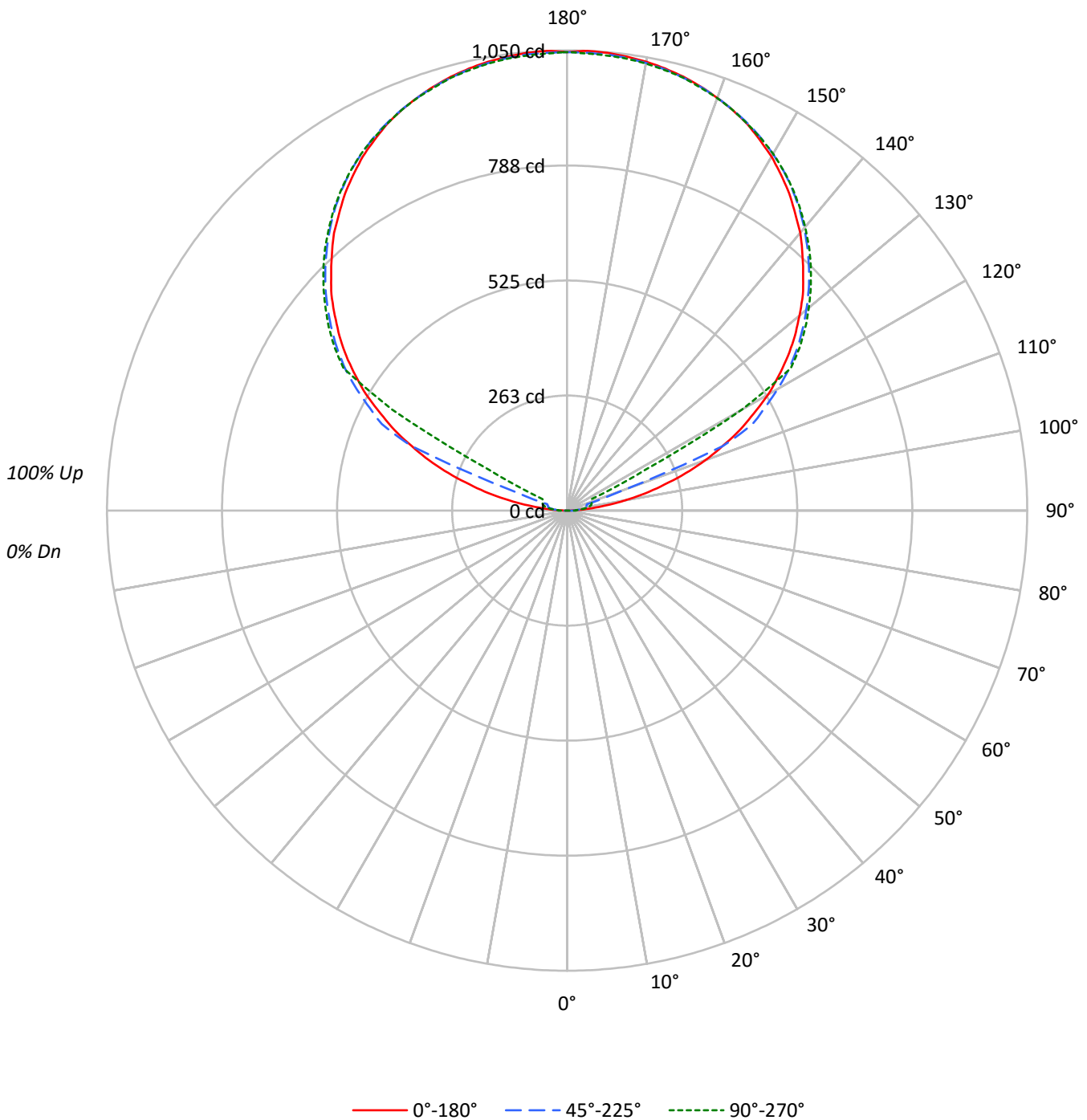
Lumens per Lamp: N/A  
Luminaire Lumens: 3068.7 lumens  
Efficiency: N/A  
Efficacy: 156.6 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 19.6  
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°	1.8	0.1
90°-100°	34.5	1.1
100°-110°	128.6	4.2
110°-120°	341.0	11.1
120°-130°	565.6	18.4
130°-140°	600.8	19.6
140°-150°	558.4	18.2
150°-160°	448.9	14.6
160°-170°	289.3	9.4
170°-180°	99.6	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.8	0.1
90°-120°	504.1	16.4
90°-150°	2229.0	72.6
90°-180°	3067.0	99.9
0°-180°	3068.7	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	9	15	19	20	3
95°	49	24	30	33	32	58
105°	230	253	46	54	58	246
115°	435	448	467	117	62	428
125°	615	625	640	645	647	549
135°	762	774	780	788	786	588
145°	883	883	896	901	897	553
155°	973	966	975	980	973	448
165°	1025	1020	1023	1028	1023	290
175°	1048	1043	1045	1050	1042	100
180°	1046	1046	1046	1046	1046	



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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	9.1	15.1	18.9	20.4
92.5°	18.9	15.9	18.2	19.7	20.4
95°	49.2	24.2	29.5	33.3	32.5
97.5°	88.6	26.5	38.6	40.9	41.6
100°	134.0	30.3	43.1	49.2	50.7
102.5°	183.9	182.4	44.7	53.0	55.3
105°	230.1	252.8	46.2	54.5	57.5
107.5°	283.9	302.8	47.7	56.0	59.0
110°	335.3	351.2	132.5	56.8	59.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	383.8	397.4	384.5	58.3	60.6
115°	435.2	448.1	467.0	116.6	62.1
117.5°	479.9	495.0	507.9	399.7	201.4
120°	529.9	541.2	554.8	563.9	461.7
122.5°	572.3	584.4	599.5	604.1	604.8
125°	615.4	625.2	639.6	644.9	647.2
127.5°	654.8	665.4	676.7	684.3	685.0
130°	691.9	704.0	712.3	720.6	719.9
132.5°	729.7	739.5	747.9	754.7	753.9
135°	761.5	773.6	780.4	788.0	786.5
137.5°	794.8	803.9	811.5	819.0	816.8
140°	827.4	833.4	841.7	848.5	844.8
142.5°	854.6	859.9	869.7	875.8	872.0
145°	883.4	882.6	895.5	900.8	897.0
147.5°	908.3	906.1	918.9	922.7	919.7
150°	932.6	927.3	939.4	943.9	940.1
152.5°	953.0	947.0	958.3	962.8	957.5
155°	972.7	965.9	975.0	979.5	973.4
157.5°	988.6	982.5	989.3	994.6	988.6
160°	1002.2	997.7	1002.2	1006.8	1001.5
162.5°	1014.3	1009.8	1013.6	1018.9	1012.0
165°	1024.9	1020.4	1022.6	1027.9	1022.6
167.5°	1033.2	1028.7	1031.0	1036.3	1029.5
170°	1040.1	1035.5	1037.0	1042.3	1035.5
172.5°	1044.6	1040.1	1041.6	1046.9	1040.1
175°	1048.4	1043.1	1044.6	1049.9	1042.3
177.5°	1049.9	1044.6	1045.4	1050.7	1043.8
180°	1046.1	1046.1	1046.1	1046.1	1046.1

(END OF REPORT)