

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: P334542

Luminaire Tested: **S122IW-S970U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IW-S970U940-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 970 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2995.3 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

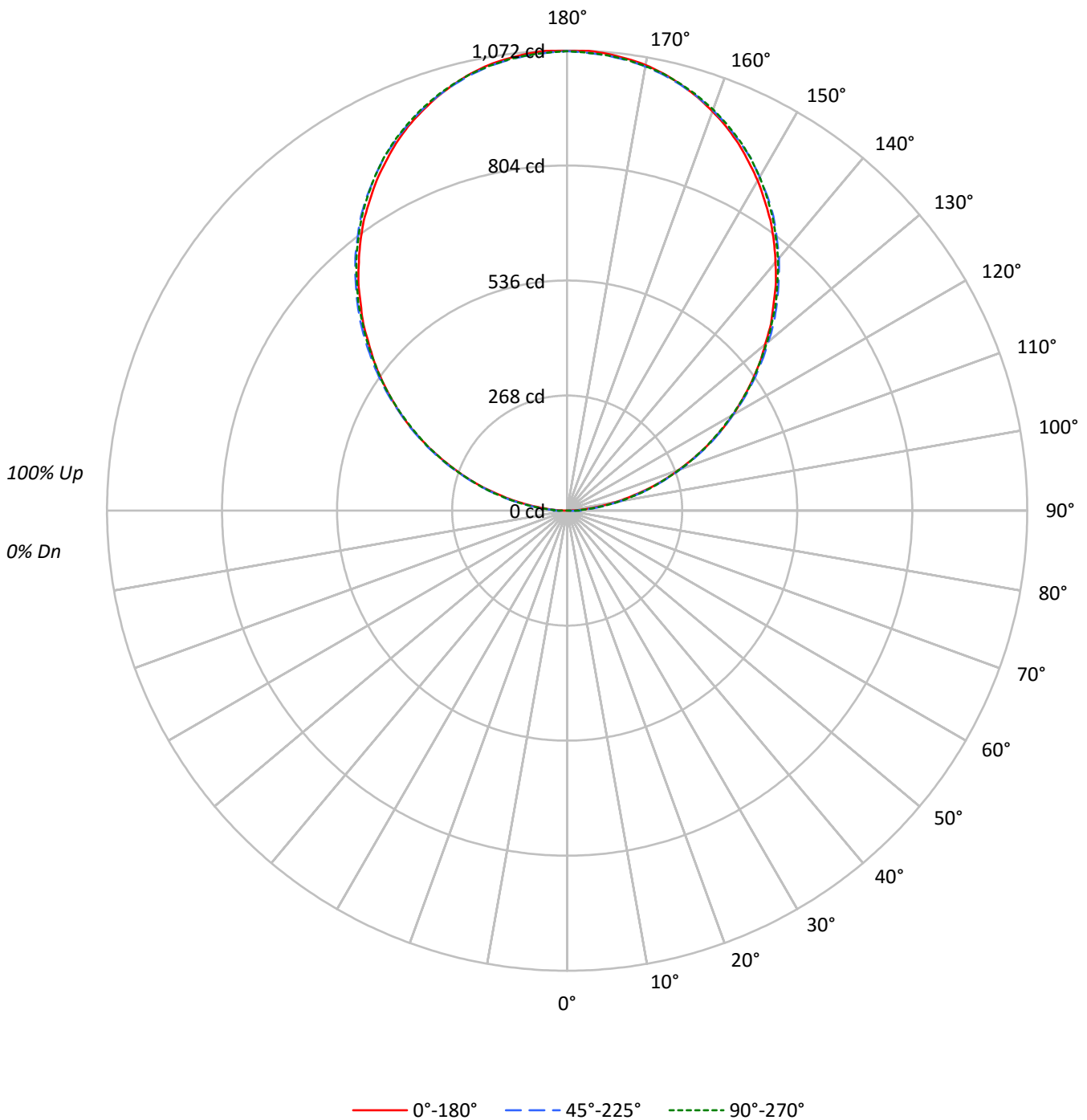
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.0	0.1
90°-100°	66.2	2.2
100°-110°	210.5	7.0
110°-120°	360.1	12.0
120°-130°	473.6	15.8
130°-140°	531.7	17.7
140°-150°	521.4	17.4
150°-160°	437.3	14.6
160°-170°	290.1	9.7
170°-180°	101.4	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.0	0.1
90°-120°	636.8	21.3
90°-150°	2163.5	72.2
90°-180°	2992.0	99.9
0°-180°	2995.3	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	12	32	30	31	3
95°	47	56	58	58	56	52
105°	194	197	199	200	200	205
115°	361	367	365	364	361	357
125°	526	534	531	528	528	470
135°	680	690	692	691	688	526
145°	826	832	837	838	834	516
155°	944	946	949	954	951	434
165°	1027	1026	1026	1032	1028	290
175°	1068	1066	1064	1070	1065	102
180°	1070	1070	1070	1070	1070	



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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°	0.9	11.7	31.6	29.8	30.7
92.5°	19.9	27.1	28.0	28.9	28.9
95°	47.0	56.0	57.8	57.8	56.0
97.5°	78.6	86.7	90.3	90.3	90.3
100°	114.7	121.9	124.6	124.6	123.7
102.5°	152.6	158.1	161.7	162.6	161.7
105°	194.2	196.9	198.7	200.5	200.5
107.5°	235.7	239.3	239.3	240.2	235.7
110°	275.5	280.9	280.9	280.9	278.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	318.8	324.2	323.3	320.6	318.8
115°	361.3	366.7	364.9	364.0	361.3
117.5°	403.7	410.9	406.4	403.7	401.0
120°	446.2	453.4	446.2	446.2	443.5
122.5°	485.0	494.0	489.5	486.8	485.0
125°	525.6	533.8	531.1	528.4	527.5
127.5°	565.4	575.3	571.7	568.1	565.4
130°	602.4	614.2	612.4	610.5	606.9
132.5°	644.0	653.0	653.9	649.4	646.7
135°	680.1	690.0	691.8	690.9	688.2
137.5°	719.8	728.0	729.8	728.9	725.2
140°	755.1	763.2	767.7	767.7	764.1
142.5°	791.2	799.3	802.0	802.9	799.3
145°	825.5	831.8	837.2	838.1	834.5
147.5°	856.2	864.3	868.0	869.8	866.1
150°	887.8	893.2	896.9	899.6	896.9
152.5°	915.8	921.2	925.8	929.4	925.8
155°	943.8	946.5	949.2	953.8	951.0
157.5°	968.2	970.0	971.8	978.1	973.6
160°	989.9	991.7	992.6	998.0	994.4
162.5°	1009.7	1009.7	1010.7	1017.0	1012.5
165°	1026.9	1026.0	1026.0	1032.3	1027.8
167.5°	1042.3	1039.6	1039.6	1045.9	1041.4
170°	1054.0	1051.3	1050.4	1056.7	1051.3
172.5°	1062.1	1059.4	1058.5	1064.8	1059.4
175°	1068.5	1065.7	1063.9	1070.3	1064.8
177.5°	1072.1	1069.4	1067.6	1073.0	1067.6
180°	1070.3	1070.3	1070.3	1070.3	1070.3

(END OF REPORT)