

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: P334512

Luminaire Tested: **S122IW-S970U830-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334512
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-S970U830-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 970 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3166.0 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

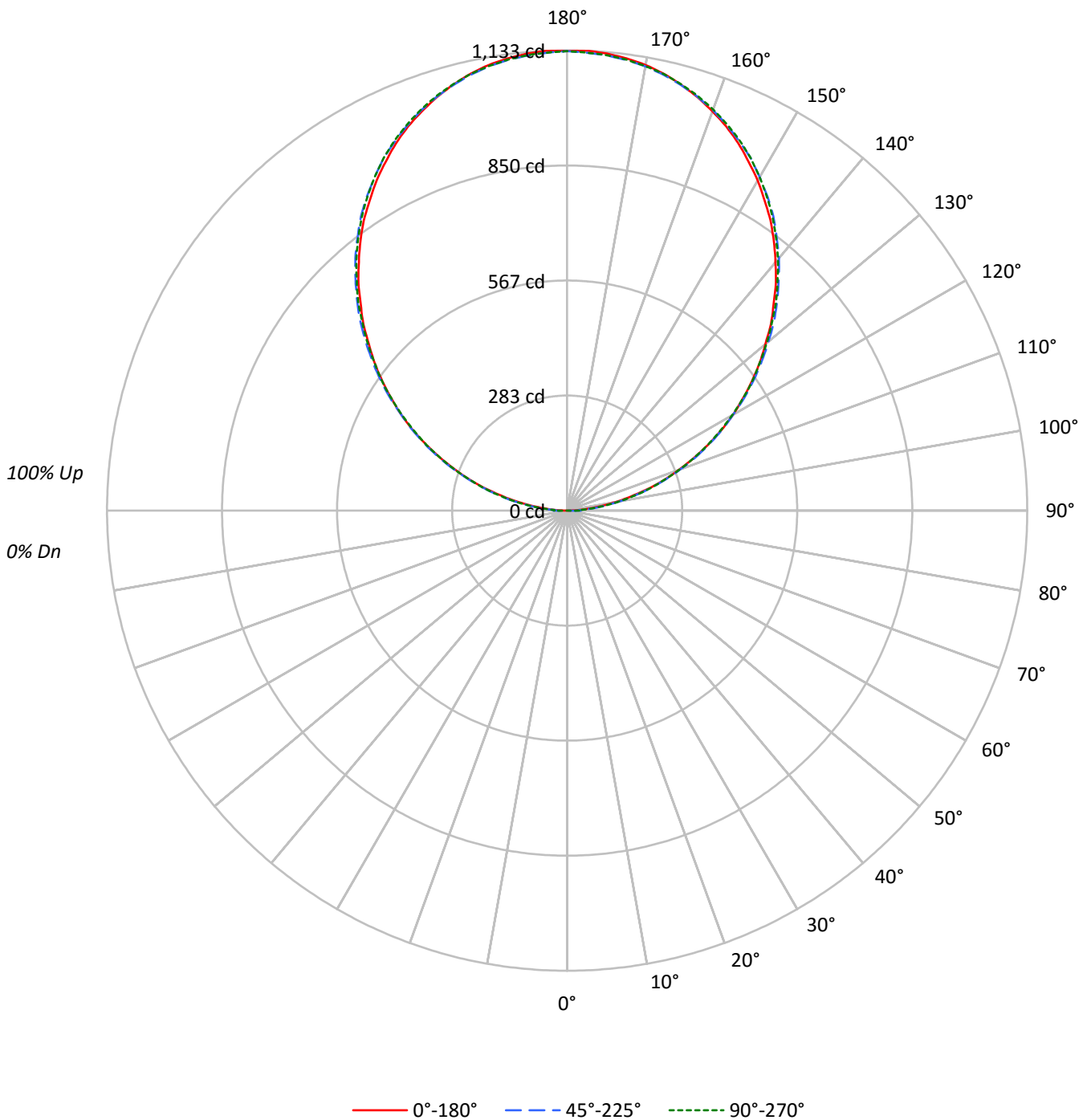
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.2	0.1
90°-100°	70.0	2.2
100°-110°	222.5	7.0
110°-120°	380.7	12.0
120°-130°	500.6	15.8
130°-140°	562.0	17.8
140°-150°	551.1	17.4
150°-160°	462.3	14.6
160°-170°	306.6	9.7
170°-180°	107.2	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.2	0.1
90°-120°	673.1	21.3
90°-150°	2286.8	72.2
90°-180°	3163.0	99.9
0°-180°	3166.0	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	33	32	32	3
95°	50	59	61	61	59	55
105°	205	208	210	212	212	217
115°	382	388	386	385	382	378
125°	556	564	561	558	558	497
135°	719	729	731	730	728	556
145°	873	879	885	886	882	545
155°	998	1000	1003	1008	1005	459
165°	1085	1084	1084	1091	1086	306
175°	1129	1126	1125	1131	1126	107
180°	1131	1131	1131	1131	1131	



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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°	1.0	12.4	33.4	31.5	32.5
92.5°	21.0	28.6	29.6	30.5	30.5
95°	49.6	59.2	61.1	61.1	59.2
97.5°	83.1	91.6	95.5	95.5	95.5
100°	121.2	128.9	131.7	131.7	130.8
102.5°	161.3	167.1	170.9	171.8	170.9
105°	205.3	208.1	210.0	211.9	211.9
107.5°	249.2	253.0	253.0	253.9	249.2
110°	291.2	296.9	296.9	296.9	294.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	337.0	342.7	341.8	338.9	337.0
115°	381.9	387.6	385.7	384.7	381.9
117.5°	426.7	434.4	429.6	426.7	423.9
120°	471.6	479.2	471.6	471.6	468.7
122.5°	512.7	522.2	517.4	514.6	512.7
125°	555.6	564.2	561.3	558.5	557.5
127.5°	597.6	608.1	604.3	600.5	597.6
130°	636.8	649.2	647.3	645.3	641.5
132.5°	680.7	690.2	691.2	686.4	683.5
135°	718.9	729.4	731.3	730.3	727.5
137.5°	760.9	769.5	771.4	770.4	766.6
140°	798.1	806.7	811.5	811.5	807.6
142.5°	836.3	844.9	847.7	848.7	844.9
145°	872.6	879.2	885.0	885.9	882.1
147.5°	905.0	913.6	917.4	919.3	915.5
150°	938.4	944.2	948.0	950.8	948.0
152.5°	968.0	973.8	978.5	982.3	978.5
155°	997.6	1000.5	1003.3	1008.1	1005.3
157.5°	1023.4	1025.3	1027.2	1033.9	1029.1
160°	1046.3	1048.2	1049.2	1054.9	1051.1
162.5°	1067.3	1067.3	1068.3	1074.9	1070.2
165°	1085.4	1084.5	1084.5	1091.2	1086.4
167.5°	1101.7	1098.8	1098.8	1105.5	1100.7
170°	1114.1	1111.2	1110.3	1117.0	1111.2
172.5°	1122.7	1119.8	1118.9	1125.5	1119.8
175°	1129.4	1126.5	1124.6	1131.3	1125.5
177.5°	1133.2	1130.3	1128.4	1134.1	1128.4
180°	1131.3	1131.3	1131.3	1131.3	1131.3

(END OF REPORT)