

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: P334517

Luminaire Tested: **S122IW-S970U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334517
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-S970U835-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 970 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3359.0 lumens
Efficiency: N/A
Efficacy: 171.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

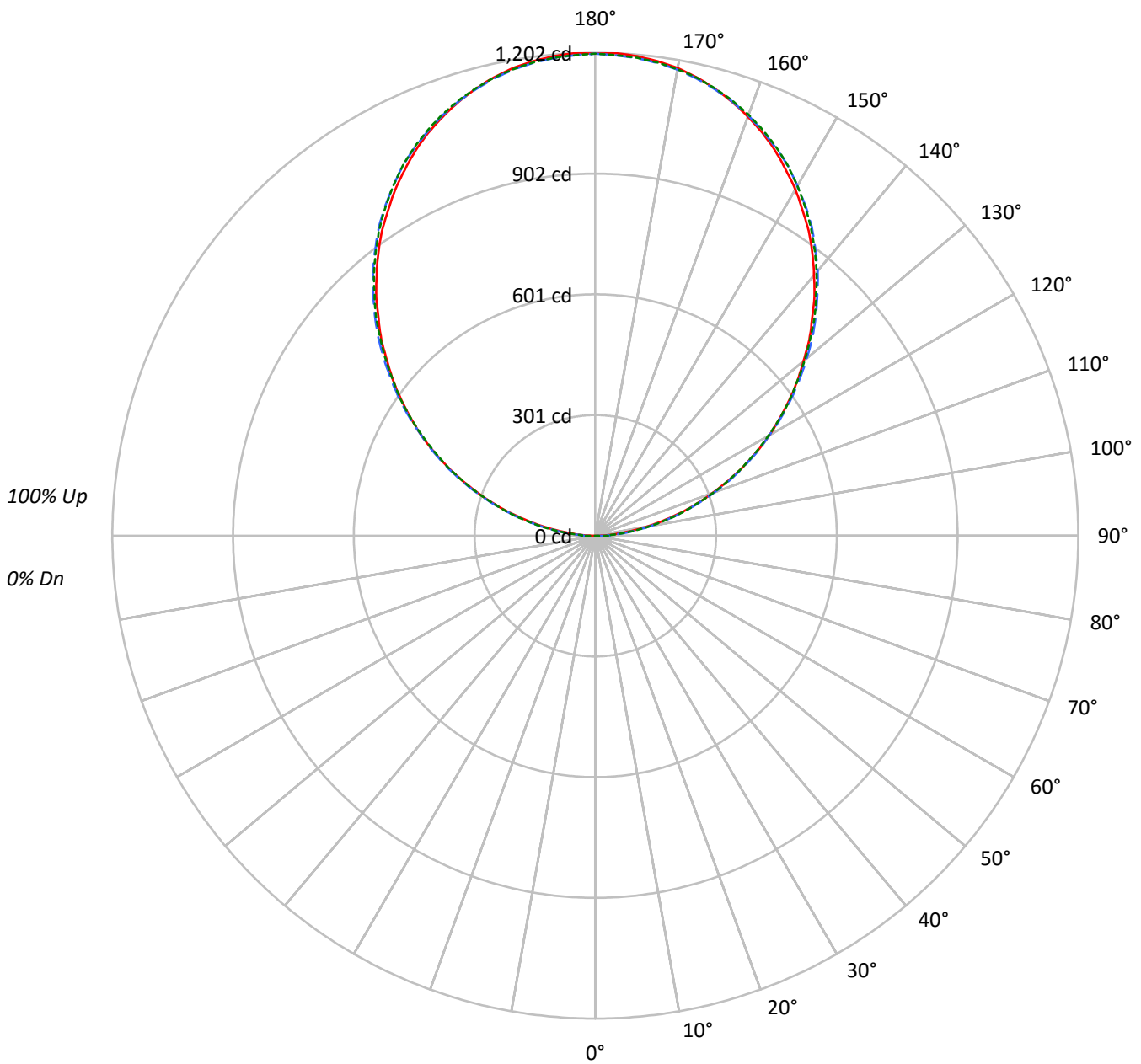
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



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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°	3.4	0.1
90°-100°	74.2	2.2
100°-110°	236.0	7.0
110°-120°	403.9	12.0
120°-130°	531.2	15.8
130°-140°	596.2	17.7
140°-150°	584.7	17.4
150°-160°	490.4	14.6
160°-170°	325.3	9.7
170°-180°	113.7	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.4	0.1
90°-120°	714.2	21.3
90°-150°	2426.2	72.2
90°-180°	3356.0	99.9
0°-180°	3359.0	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	13	35	33	34	3
95°	53	63	65	65	63	59
105°	218	221	223	225	225	230
115°	405	411	409	408	405	401
125°	590	599	596	592	592	527
135°	763	774	776	775	772	589
145°	926	933	939	940	936	578
155°	1058	1062	1064	1070	1066	487
165°	1152	1151	1151	1158	1153	325
175°	1198	1195	1193	1200	1194	114
180°	1200	1200	1200	1200	1200	



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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	13.2	35.4	33.4	34.4
92.5°	22.3	30.4	31.4	32.4	32.4
95°	52.7	62.8	64.8	64.8	62.8
97.5°	88.1	97.2	101.3	101.3	101.3
100°	128.6	136.7	139.8	139.8	138.8
102.5°	171.2	177.2	181.3	182.3	181.3
105°	217.8	220.8	222.8	224.9	224.9
107.5°	264.4	268.4	268.4	269.4	264.4
110°	308.9	315.0	315.0	315.0	312.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.5	363.6	362.6	359.6	357.5
115°	405.1	411.2	409.2	408.2	405.1
117.5°	452.7	460.8	455.8	452.7	449.7
120°	500.4	508.5	500.4	500.4	497.3
122.5°	543.9	554.0	549.0	545.9	543.9
125°	589.5	598.6	595.6	592.5	591.5
127.5°	634.0	645.2	641.1	637.1	634.0
130°	675.6	688.7	686.7	684.7	680.6
132.5°	722.2	732.3	733.3	728.2	725.2
135°	762.7	773.8	775.8	774.8	771.8
137.5°	807.2	816.4	818.4	817.4	813.3
140°	846.7	855.9	860.9	860.9	856.9
142.5°	887.3	896.4	899.4	900.4	896.4
145°	925.7	932.8	938.9	939.9	935.9
147.5°	960.2	969.3	973.4	975.4	971.3
150°	995.6	1001.7	1005.8	1008.8	1005.8
152.5°	1027.0	1033.1	1038.2	1042.2	1038.2
155°	1058.4	1061.5	1064.5	1069.6	1066.5
157.5°	1085.8	1087.8	1089.8	1096.9	1091.9
160°	1110.1	1112.1	1113.1	1119.2	1115.2
162.5°	1132.4	1132.4	1133.4	1140.5	1135.4
165°	1151.6	1150.6	1150.6	1157.7	1152.6
167.5°	1168.8	1165.8	1165.8	1172.9	1167.8
170°	1182.0	1179.0	1178.0	1185.0	1179.0
172.5°	1191.1	1188.1	1187.1	1194.2	1188.1
175°	1198.2	1195.2	1193.1	1200.2	1194.2
177.5°	1202.3	1199.2	1197.2	1203.3	1197.2
180°	1200.2	1200.2	1200.2	1200.2	1200.2

(END OF REPORT)