

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: P334587

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334587
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-S970U835-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 970 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

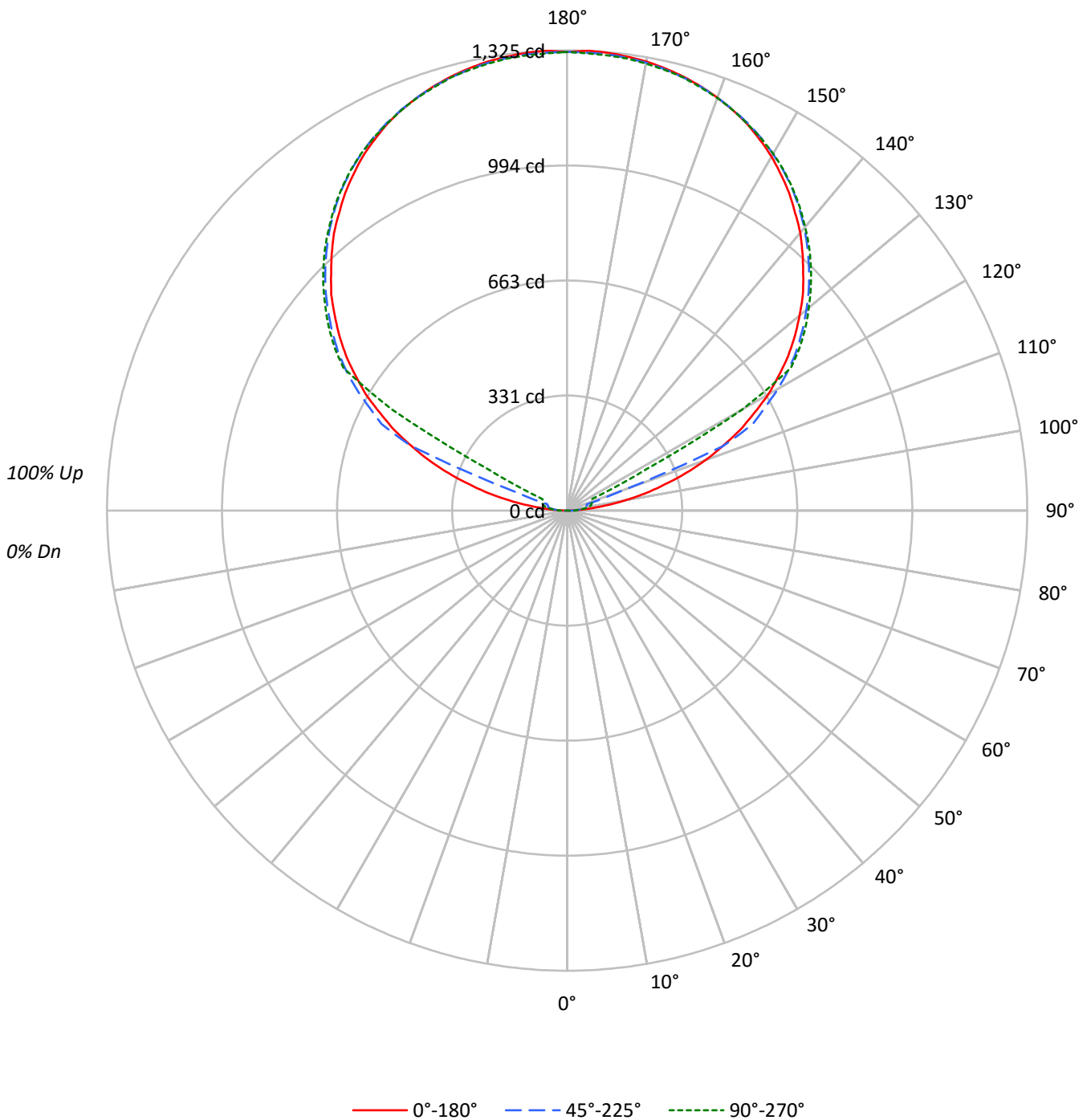
Lumens per Lamp: N/A
Luminaire Lumens: 3873.7 lumens
Efficiency: N/A
Efficacy: 197.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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°	2.3	0.1
90°-100°	43.5	1.1
100°-110°	162.3	4.2
110°-120°	430.5	11.1
120°-130°	714.0	18.4
130°-140°	758.5	19.6
140°-150°	704.9	18.2
150°-160°	566.7	14.6
160°-170°	365.2	9.4
170°-180°	125.7	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.1
90°-120°	636.4	16.4
90°-150°	2813.8	72.6
90°-180°	3871.0	99.9
0°-180°	3873.7	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	12	19	24	26	4
95°	62	31	37	42	41	74
105°	290	319	58	69	73	310
115°	549	566	590	147	78	541
125°	777	789	807	814	817	693
135°	961	977	985	995	993	743
145°	1115	1114	1130	1137	1132	697
155°	1228	1219	1231	1236	1229	566
165°	1294	1288	1291	1298	1291	366
175°	1323	1317	1319	1325	1316	126
180°	1320	1320	1320	1320	1320	



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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	11.5	19.1	23.9	25.8
92.5°	23.9	20.1	22.9	24.8	25.8
95°	62.1	30.6	37.3	42.0	41.1
97.5°	111.8	33.4	48.7	51.6	52.6
100°	169.1	38.2	54.5	62.1	64.0
102.5°	232.2	230.3	56.4	66.9	69.8
105°	290.5	319.1	58.3	68.8	72.6
107.5°	358.3	382.2	60.2	70.7	74.5
110°	423.3	443.4	167.2	71.7	75.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	484.5	501.7	485.4	73.6	76.4
115°	549.4	565.7	589.6	147.2	78.4
117.5°	605.8	624.9	641.2	504.5	254.2
120°	668.9	683.2	700.4	711.9	582.9
122.5°	722.4	737.7	756.8	762.5	763.5
125°	776.8	789.3	807.4	814.1	817.0
127.5°	826.5	839.9	854.2	863.8	864.8
130°	873.4	888.6	899.2	909.7	908.7
132.5°	921.1	933.6	944.1	952.7	951.7
135°	961.3	976.6	985.2	994.7	992.8
137.5°	1003.3	1014.8	1024.3	1033.9	1031.0
140°	1044.4	1052.0	1062.6	1071.2	1066.4
142.5°	1078.8	1085.5	1097.9	1105.6	1100.8
145°	1115.1	1114.2	1130.4	1137.1	1132.3
147.5°	1146.6	1143.8	1160.0	1164.8	1161.0
150°	1177.2	1170.5	1185.8	1191.5	1186.8
152.5°	1203.0	1195.4	1209.7	1215.4	1208.7
155°	1227.9	1219.3	1230.7	1236.5	1228.8
157.5°	1247.9	1240.3	1248.9	1255.6	1247.9
160°	1265.1	1259.4	1265.1	1270.9	1264.2
162.5°	1280.4	1274.7	1279.5	1286.1	1277.5
165°	1293.8	1288.1	1290.9	1297.6	1290.9
167.5°	1304.3	1298.6	1301.4	1308.1	1299.5
170°	1312.9	1307.2	1309.1	1315.8	1307.2
172.5°	1318.6	1312.9	1314.8	1321.5	1312.9
175°	1323.4	1316.7	1318.6	1325.3	1315.8
177.5°	1325.3	1318.6	1319.6	1326.3	1317.7
180°	1320.5	1320.5	1320.5	1320.5	1320.5

(END OF REPORT)