

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: P334553

Luminaire Tested: **S122IP-S925U835-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334553  
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: S122IP-S925U835-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 925 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3702.5 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

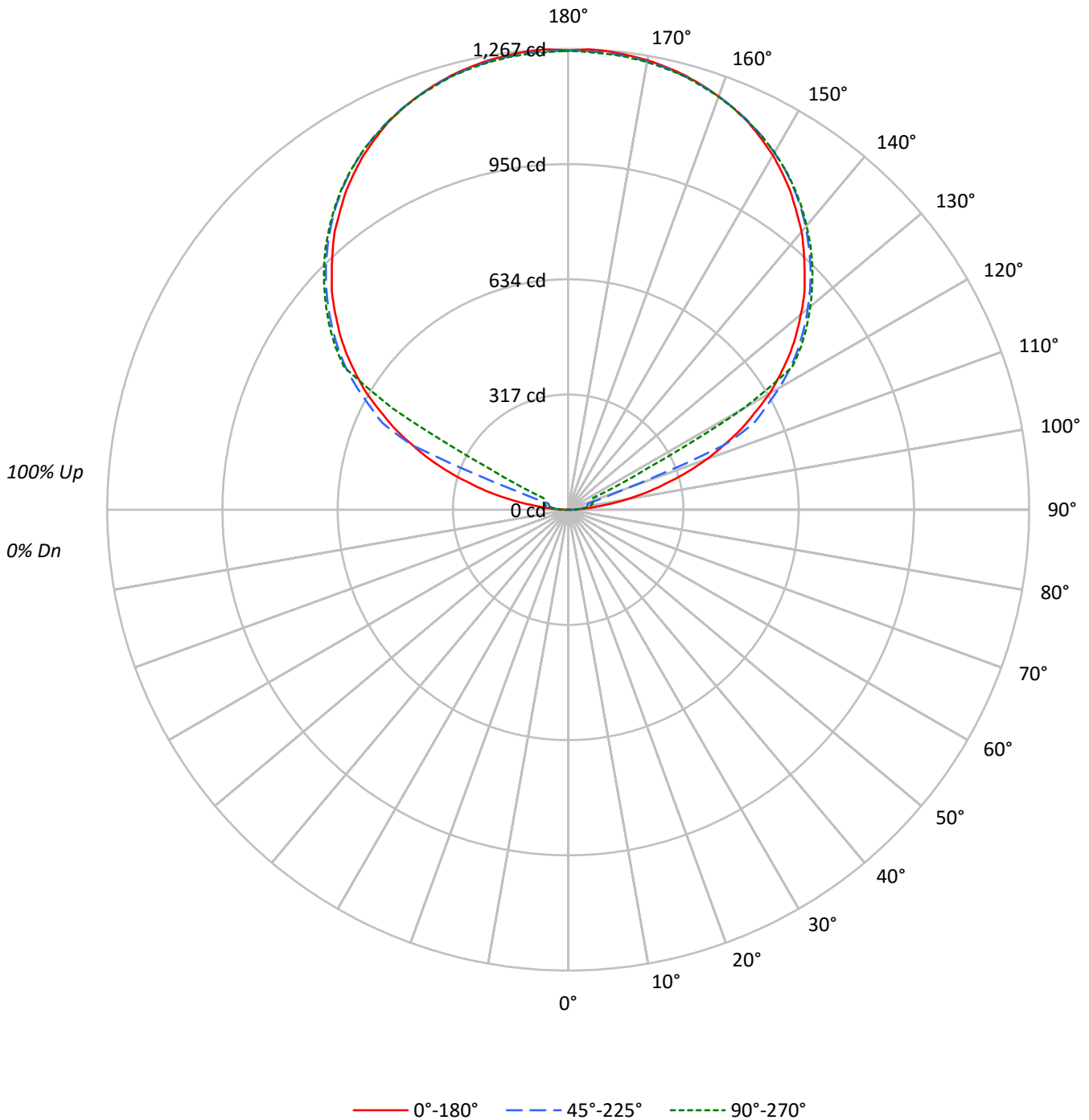
Input Watts (W): 35.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2.2	0.1
90°-100°	41.6	1.1
100°-110°	155.1	4.2
110°-120°	411.5	11.1
120°-130°	682.5	18.4
130°-140°	724.9	19.6
140°-150°	673.8	18.2
150°-160°	541.7	14.6
160°-170°	349.0	9.4
170°-180°	120.1	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.2	0.1
90°-120°	608.3	16.4
90°-150°	2689.4	72.6
90°-180°	3700.0	99.9
0°-180°	3702.5	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	11	18	23	25	3
95°	59	29	36	40	39	70
105°	278	305	56	66	69	297
115°	525	541	564	141	75	517
125°	742	754	772	778	781	662
135°	919	933	942	951	949	710
145°	1066	1065	1080	1087	1082	667
155°	1174	1165	1176	1182	1174	541
165°	1237	1231	1234	1240	1234	349
175°	1265	1258	1260	1267	1258	120
180°	1262	1262	1262	1262	1262	



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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	11.0	18.3	22.8	24.7
92.5°	22.8	19.2	21.9	23.7	24.7
95°	59.4	29.2	35.6	40.2	39.3
97.5°	106.9	32.0	46.6	49.3	50.2
100°	161.7	36.5	52.1	59.4	61.2
102.5°	221.9	220.1	53.9	63.9	66.7
105°	277.6	305.0	55.7	65.8	69.4
107.5°	342.5	365.3	57.5	67.6	71.2
110°	404.6	423.8	159.8	68.5	72.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	463.0	479.5	464.0	70.3	73.1
115°	525.1	540.7	563.5	140.6	74.9
117.5°	579.0	597.3	612.8	482.2	242.9
120°	639.3	653.0	669.4	680.4	557.1
122.5°	690.5	705.1	723.3	728.8	729.7
125°	742.5	754.4	771.7	778.1	780.9
127.5°	790.0	802.8	816.5	825.6	826.5
130°	834.8	849.4	859.4	869.5	868.5
132.5°	880.4	892.3	902.3	910.6	909.6
135°	918.8	933.4	941.6	950.7	948.9
137.5°	959.0	969.9	979.1	988.2	985.4
140°	998.2	1005.5	1015.6	1023.8	1019.2
142.5°	1031.1	1037.5	1049.4	1056.7	1052.1
145°	1065.8	1064.9	1080.4	1086.8	1082.3
147.5°	1096.0	1093.2	1108.7	1113.3	1109.7
150°	1125.2	1118.8	1133.4	1138.9	1134.3
152.5°	1149.8	1142.5	1156.2	1161.7	1155.3
155°	1173.6	1165.4	1176.3	1181.8	1174.5
157.5°	1192.8	1185.5	1193.7	1200.1	1192.8
160°	1209.2	1203.7	1209.2	1214.7	1208.3
162.5°	1223.8	1218.3	1222.9	1229.3	1221.1
165°	1236.6	1231.1	1233.9	1240.3	1233.9
167.5°	1246.6	1241.2	1243.9	1250.3	1242.1
170°	1254.9	1249.4	1251.2	1257.6	1249.4
172.5°	1260.3	1254.9	1256.7	1263.1	1254.9
175°	1264.9	1258.5	1260.3	1266.7	1257.6
177.5°	1266.7	1260.3	1261.3	1267.7	1259.4
180°	1262.2	1262.2	1262.2	1262.2	1262.2

(END OF REPORT)