

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: P334569

Luminaire Tested: **S122IP-S1080U930-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334569  
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-S1080U930-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 1080 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

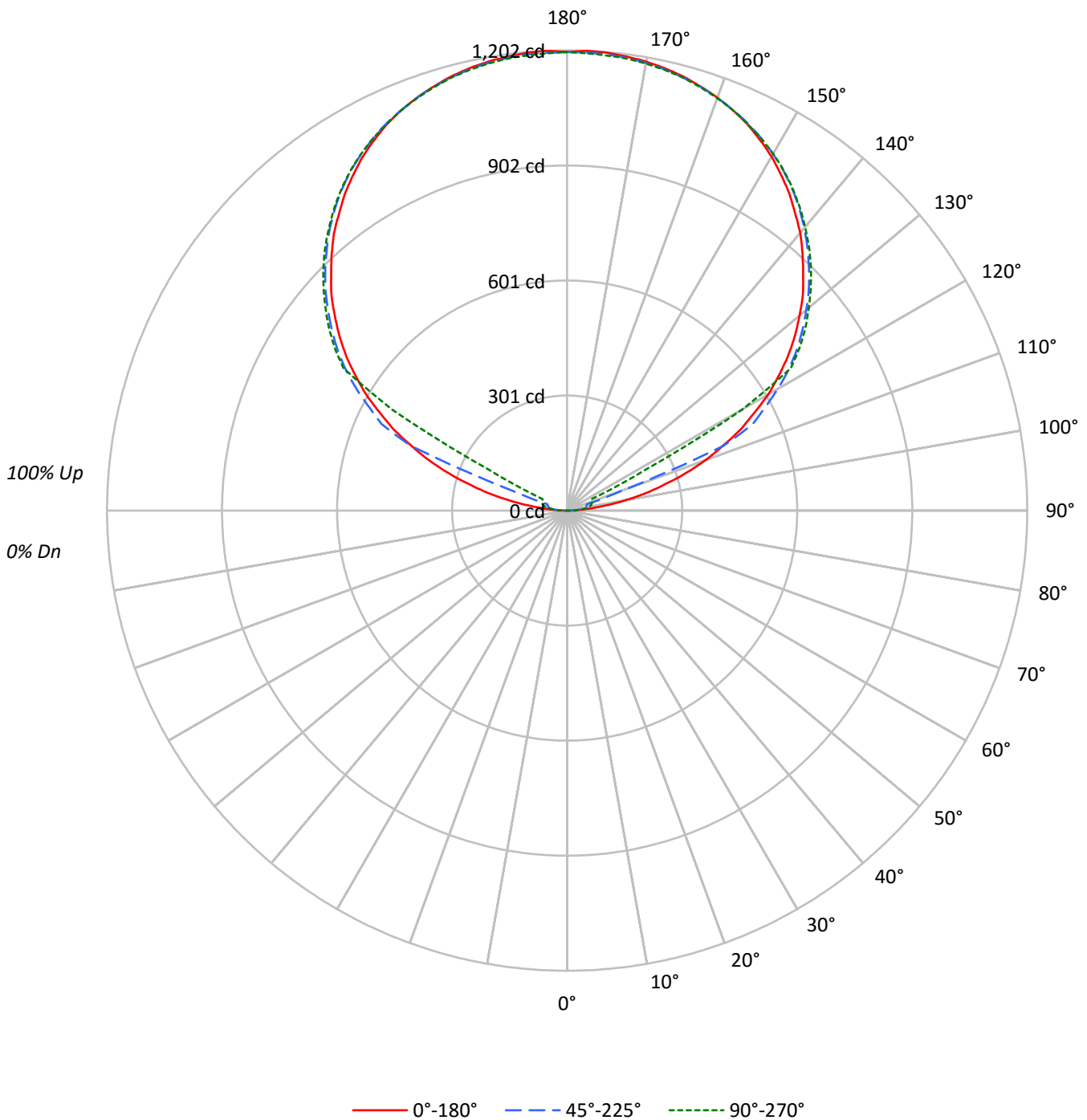
Lumens per Lamp: N/A  
Luminaire Lumens: 3513.6 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 41.9  
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°	2.1	0.1
90°-100°	39.5	1.1
100°-110°	147.2	4.2
110°-120°	390.5	11.1
120°-130°	647.6	18.4
130°-140°	687.9	19.6
140°-150°	639.4	18.2
150°-160°	514.0	14.6
160°-170°	331.2	9.4
170°-180°	114.0	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.1	0.1
90°-120°	577.2	16.4
90°-150°	2552.2	72.6
90°-180°	3511.0	99.9
0°-180°	3513.6	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	10	17	22	23	3
95°	56	28	34	38	37	67
105°	264	290	53	62	66	282
115°	498	513	535	134	71	491
125°	705	716	732	738	741	628
135°	872	886	894	902	900	674
145°	1011	1011	1025	1031	1027	633
155°	1114	1106	1116	1122	1115	513
165°	1174	1168	1171	1177	1171	332
175°	1200	1194	1196	1202	1193	114
180°	1198	1198	1198	1198	1198	



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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	10.4	17.3	21.7	23.4
92.5°	21.7	18.2	20.8	22.5	23.4
95°	56.3	27.7	33.8	38.1	37.3
97.5°	101.4	30.3	44.2	46.8	47.7
100°	153.4	34.7	49.4	56.3	58.1
102.5°	210.6	208.9	51.1	60.7	63.3
105°	263.5	289.5	52.9	62.4	65.9
107.5°	325.0	346.7	54.6	64.1	67.6
110°	383.9	402.1	151.7	65.0	68.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	439.4	455.0	440.3	66.7	69.3
115°	498.4	513.1	534.8	133.5	71.1
117.5°	549.5	566.8	581.6	457.6	230.5
120°	606.7	619.7	635.3	645.7	528.7
122.5°	655.2	669.1	686.4	691.6	692.5
125°	704.6	715.9	732.4	738.4	741.0
127.5°	749.7	761.8	774.8	783.5	784.4
130°	792.2	806.0	815.6	825.1	824.2
132.5°	835.5	846.8	856.3	864.1	863.2
135°	871.9	885.8	893.6	902.2	900.5
137.5°	910.0	920.4	929.1	937.8	935.2
140°	947.3	954.2	963.8	971.6	967.2
142.5°	978.5	984.6	995.8	1002.8	998.4
145°	1011.4	1010.6	1025.3	1031.4	1027.0
147.5°	1040.0	1037.4	1052.2	1056.5	1053.0
150°	1067.8	1061.7	1075.6	1080.8	1076.4
152.5°	1091.2	1084.2	1097.2	1102.4	1096.4
155°	1113.7	1105.9	1116.3	1121.5	1114.6
157.5°	1131.9	1125.0	1132.8	1138.8	1131.9
160°	1147.5	1142.3	1147.5	1152.7	1146.6
162.5°	1161.4	1156.2	1160.5	1166.6	1158.8
165°	1173.5	1168.3	1170.9	1177.0	1170.9
167.5°	1183.0	1177.8	1180.4	1186.5	1178.7
170°	1190.8	1185.6	1187.4	1193.4	1185.6
172.5°	1196.0	1190.8	1192.6	1198.6	1190.8
175°	1200.4	1194.3	1196.0	1202.1	1193.4
177.5°	1202.1	1196.0	1196.9	1203.0	1195.2
180°	1197.8	1197.8	1197.8	1197.8	1197.8

(END OF REPORT)