

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: P334533

Luminaire Tested: **S122IW-S1240U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334533  
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-S1240U930-4F0-1E-UDD-1  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 1240 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3506.0 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

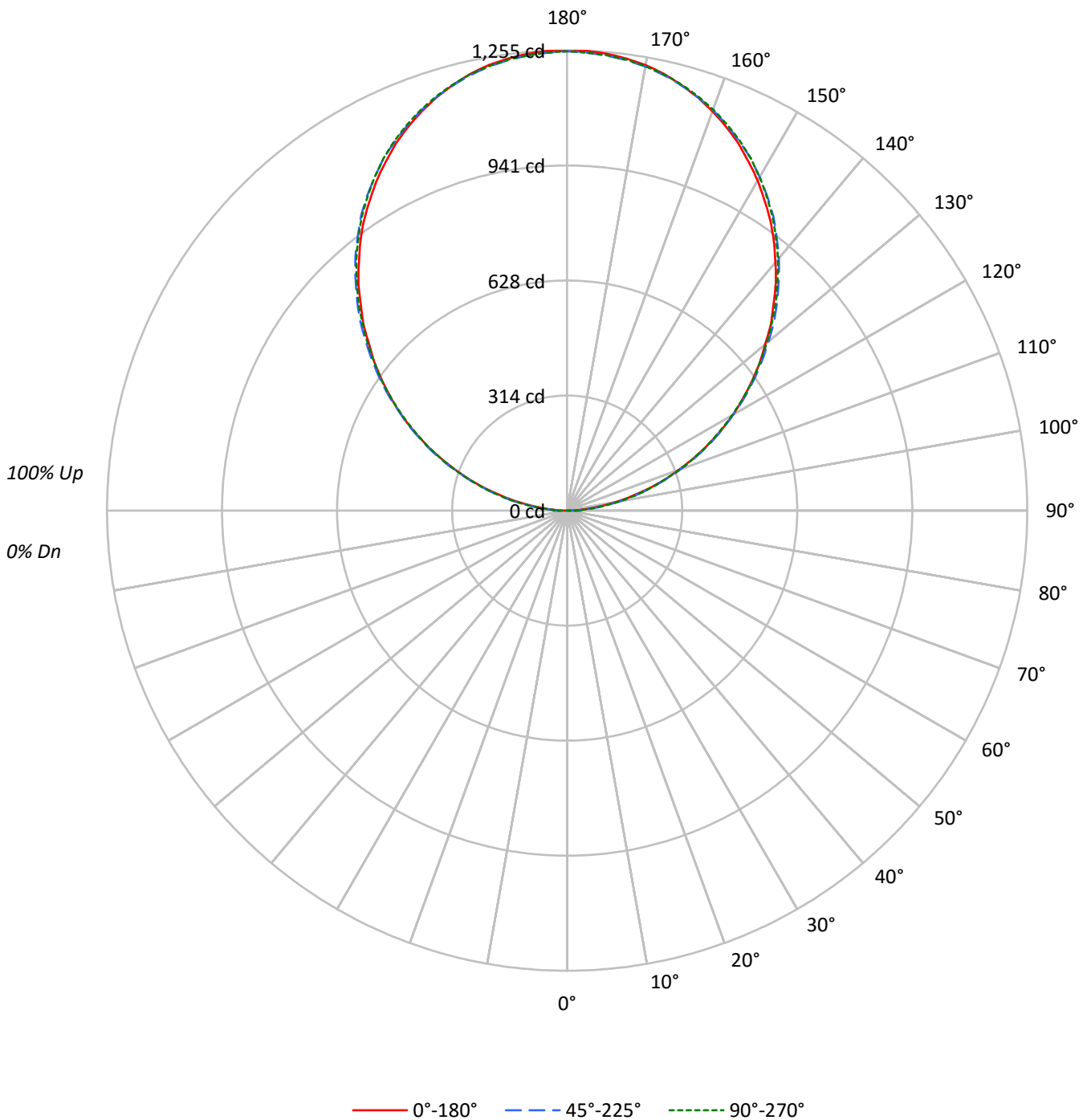
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3.6	0.1
90°-100°	77.5	2.2
100°-110°	246.4	7.0
110°-120°	421.5	12.0
120°-130°	554.4	15.8
130°-140°	622.3	17.7
140°-150°	610.3	17.4
150°-160°	511.9	14.6
160°-170°	339.5	9.7
170°-180°	118.7	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.6	0.1
90°-120°	745.4	21.3
90°-150°	2532.3	72.2
90°-180°	3502.0	99.9
0°-180°	3506.0	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	14	37	35	36	3
95°	55	66	68	68	66	61
105°	227	230	233	235	235	240
115°	423	429	427	426	423	418
125°	615	625	622	618	617	550
135°	796	808	810	809	806	615
145°	966	974	980	981	977	604
155°	1105	1108	1111	1116	1113	509
165°	1202	1201	1201	1208	1203	339
175°	1251	1247	1245	1253	1246	119
180°	1253	1253	1253	1253	1253	



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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°	1.1	13.7	37.0	34.9	35.9
92.5°	23.3	31.7	32.8	33.8	33.8
95°	55.0	65.5	67.7	67.7	65.5
97.5°	92.0	101.5	105.7	105.7	105.7
100°	134.3	142.7	145.9	145.9	144.8
102.5°	178.7	185.0	189.2	190.3	189.2
105°	227.3	230.5	232.6	234.7	234.7
107.5°	275.9	280.1	280.1	281.2	275.9
110°	322.4	328.8	328.8	328.8	325.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	373.2	379.5	378.5	375.3	373.2
115°	422.9	429.2	427.1	426.0	422.9
117.5°	472.5	481.0	475.7	472.5	469.4
120°	522.2	530.7	522.2	522.2	519.1
122.5°	567.7	578.3	573.0	569.8	567.7
125°	615.3	624.8	621.6	618.4	617.4
127.5°	661.8	673.4	669.2	664.9	661.8
130°	705.1	718.9	716.7	714.6	710.4
132.5°	753.8	764.3	765.4	760.1	756.9
135°	796.0	807.7	809.8	808.7	805.6
137.5°	842.6	852.1	854.2	853.1	848.9
140°	883.8	893.3	898.6	898.6	894.4
142.5°	926.1	935.6	938.8	939.8	935.6
145°	966.2	973.6	980.0	981.0	976.8
147.5°	1002.2	1011.7	1015.9	1018.0	1013.8
150°	1039.2	1045.5	1049.8	1052.9	1049.8
152.5°	1072.0	1078.3	1083.6	1087.8	1083.6
155°	1104.7	1107.9	1111.1	1116.4	1113.2
157.5°	1133.3	1135.4	1137.5	1144.9	1139.6
160°	1158.6	1160.8	1161.8	1168.2	1163.9
162.5°	1181.9	1181.9	1183.0	1190.4	1185.1
165°	1202.0	1200.9	1200.9	1208.3	1203.0
167.5°	1220.0	1216.8	1216.8	1224.2	1218.9
170°	1233.7	1230.5	1229.5	1236.9	1230.5
172.5°	1243.2	1240.0	1239.0	1246.4	1240.0
175°	1250.6	1247.4	1245.3	1252.7	1246.4
177.5°	1254.8	1251.7	1249.6	1255.9	1249.6
180°	1252.7	1252.7	1252.7	1252.7	1252.7

(END OF REPORT)