

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: P334543

Luminaire Tested: **S122IW-S1240U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334543  
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-S1240U940-4F0-1E-UDD-1  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 1240 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

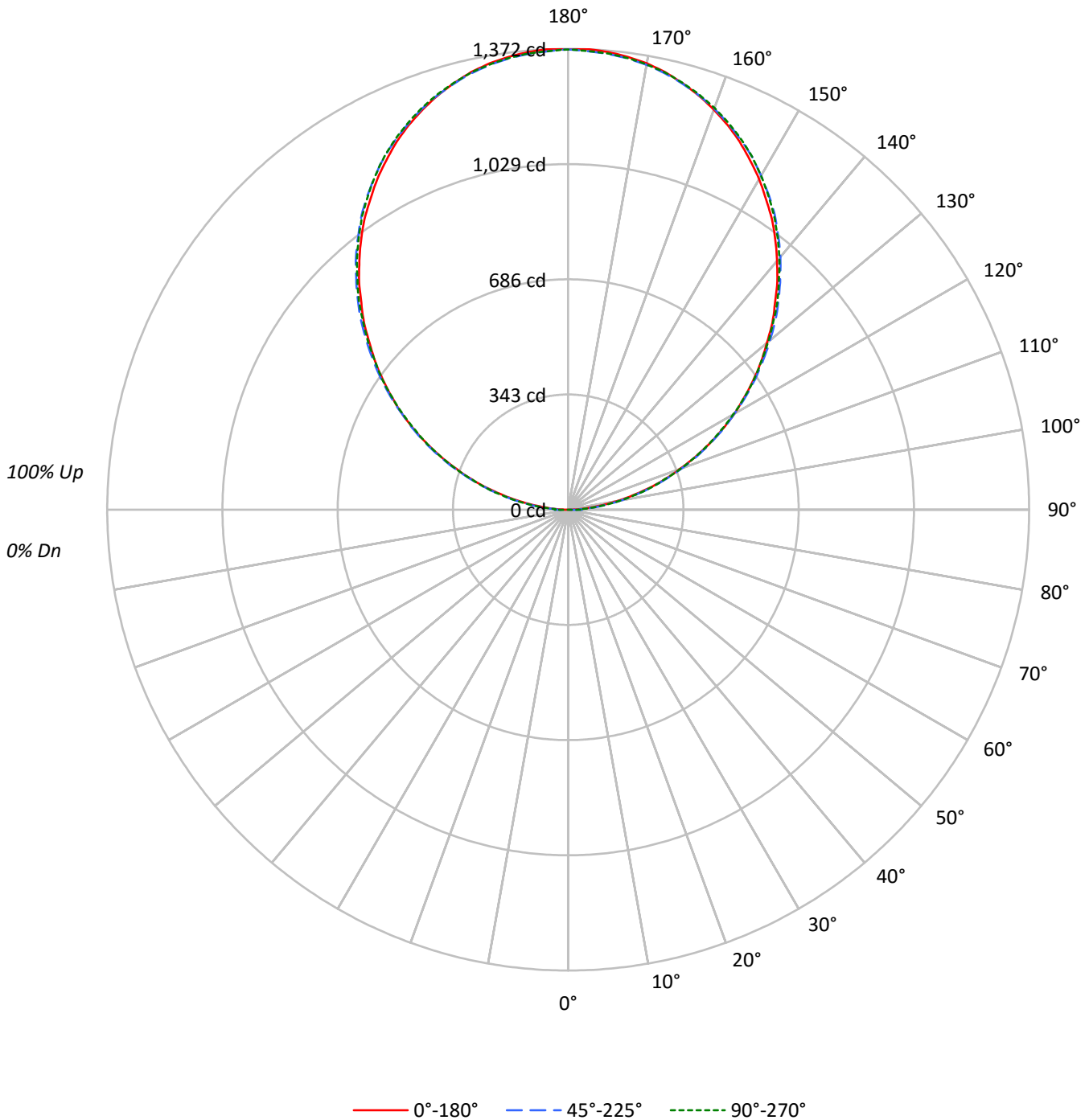
Lumens per Lamp: N/A  
Luminaire Lumens: 3834.5 lumens  
Efficiency: N/A  
Efficacy: 149.2 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

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	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°	3.9	0.1
90°-100°	84.7	2.2
100°-110°	269.5	7.0
110°-120°	461.1	12.0
120°-130°	606.3	15.8
130°-140°	680.6	17.7
140°-150°	667.5	17.4
150°-160°	559.9	14.6
160°-170°	371.3	9.7
170°-180°	129.8	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.9	0.1
90°-120°	815.3	21.3
90°-150°	2769.7	72.2
90°-180°	3831.0	99.9
0°-180°	3834.5	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	15	40	38	39	4
95°	60	72	74	74	72	67
105°	249	252	254	257	257	262
115°	462	469	467	466	462	458
125°	673	683	680	676	675	601
135°	871	883	886	884	881	673
145°	1057	1065	1072	1073	1068	660
155°	1208	1212	1215	1221	1218	556
165°	1315	1314	1314	1322	1316	371
175°	1368	1364	1362	1370	1363	130
180°	1370	1370	1370	1370	1370	



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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°	1.2	15.0	40.5	38.2	39.3
92.5°	25.4	34.7	35.8	37.0	37.0
95°	60.1	71.7	74.0	74.0	71.7
97.5°	100.6	111.0	115.6	115.6	115.6
100°	146.8	156.1	159.6	159.6	158.4
102.5°	195.4	202.3	207.0	208.1	207.0
105°	248.6	252.1	254.4	256.7	256.7
107.5°	301.8	306.4	306.4	307.6	301.8
110°	352.7	359.6	359.6	359.6	356.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	408.1	415.1	413.9	410.5	408.1
115°	462.5	469.4	467.1	466.0	462.5
117.5°	516.8	526.1	520.3	516.8	513.4
120°	571.2	580.4	571.2	571.2	567.7
122.5°	620.9	632.5	626.7	623.2	620.9
125°	672.9	683.3	679.9	676.4	675.2
127.5°	723.8	736.5	731.9	727.3	723.8
130°	771.2	786.2	783.9	781.6	777.0
132.5°	824.4	836.0	837.1	831.3	827.9
135°	870.6	883.4	885.7	884.5	881.0
137.5°	921.5	931.9	934.2	933.1	928.5
140°	966.6	977.0	982.8	982.8	978.2
142.5°	1012.9	1023.3	1026.7	1027.9	1023.3
145°	1056.8	1064.9	1071.8	1073.0	1068.4
147.5°	1096.1	1106.5	1111.1	1113.5	1108.8
150°	1136.6	1143.5	1148.1	1151.6	1148.1
152.5°	1172.4	1179.4	1185.1	1189.8	1185.1
155°	1208.3	1211.7	1215.2	1221.0	1217.5
157.5°	1239.5	1241.8	1244.1	1252.2	1246.4
160°	1267.2	1269.5	1270.7	1277.6	1273.0
162.5°	1292.7	1292.7	1293.8	1301.9	1296.1
165°	1314.6	1313.5	1313.5	1321.6	1315.8
167.5°	1334.3	1330.8	1330.8	1338.9	1333.1
170°	1349.3	1345.9	1344.7	1352.8	1345.9
172.5°	1359.7	1356.3	1355.1	1363.2	1356.3
175°	1367.8	1364.4	1362.0	1370.1	1363.2
177.5°	1372.4	1369.0	1366.7	1373.6	1366.7
180°	1370.1	1370.1	1370.1	1370.1	1370.1

(END OF REPORT)