

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: P334598

Luminaire Tested: **S122IW-S1240U927-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334598  
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-S1240U927-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1240 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3928.5 lumens  
Efficiency: N/A  
Efficacy: 152.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

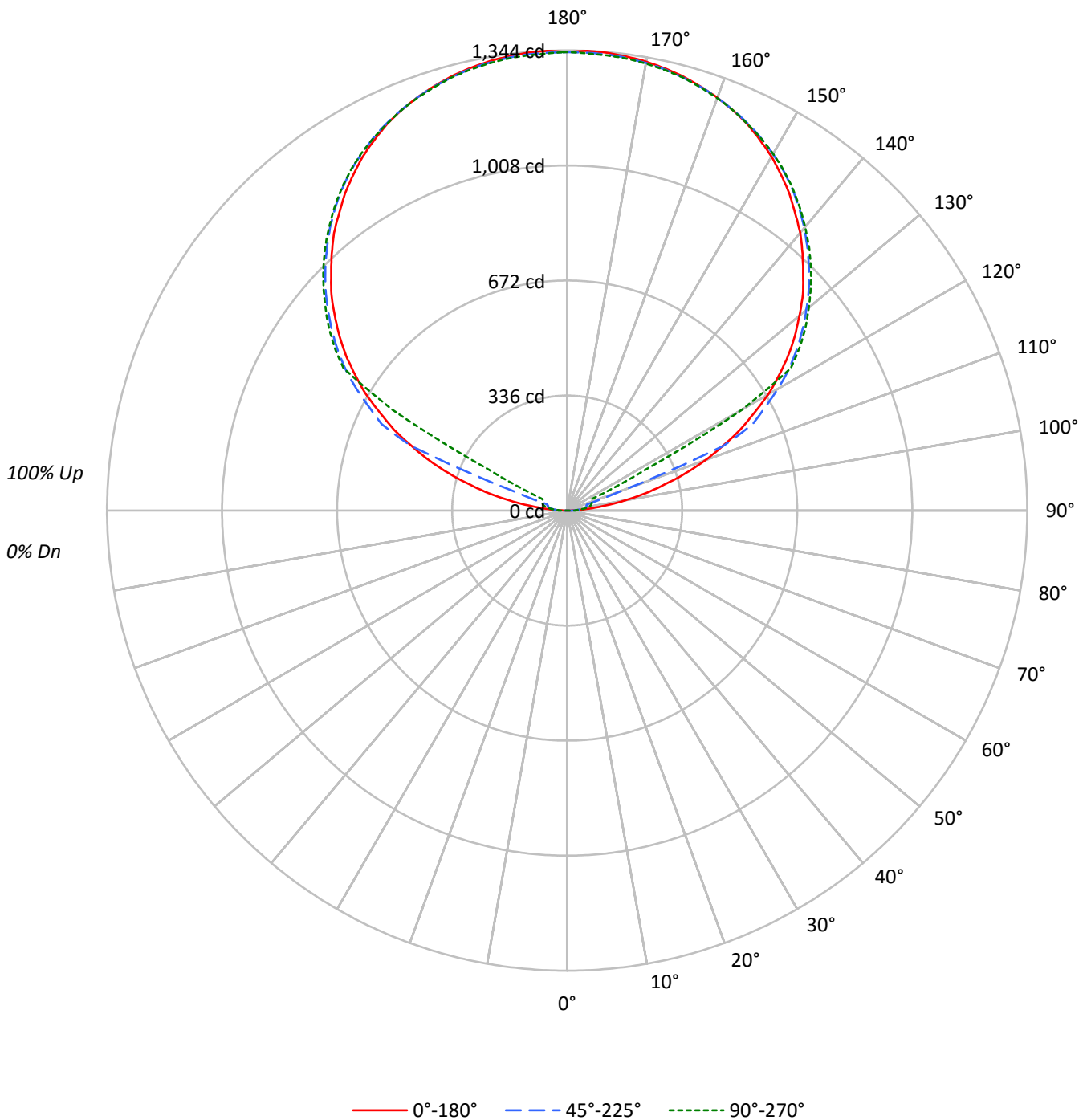
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2.4	0.1
90°-100°	44.2	1.1
100°-110°	164.6	4.2
110°-120°	436.6	11.1
120°-130°	724.1	18.4
130°-140°	769.2	19.6
140°-150°	714.9	18.2
150°-160°	574.7	14.6
160°-170°	370.3	9.4
170°-180°	127.5	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.4	0.1
90°-120°	645.4	16.4
90°-150°	2853.6	72.6
90°-180°	3926.0	99.9
0°-180°	3928.5	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	12	19	24	26	4
95°	63	31	38	43	42	75
105°	295	324	59	70	74	315
115°	557	574	598	149	80	549
125°	788	800	819	826	828	703
135°	975	990	999	1009	1007	753
145°	1131	1130	1146	1153	1148	707
155°	1245	1236	1248	1254	1246	574
165°	1312	1306	1309	1316	1309	371
175°	1342	1335	1337	1344	1334	128
180°	1339	1339	1339	1339	1339	



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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	11.6	19.4	24.2	26.2
92.5°	24.2	20.3	23.3	25.2	26.2
95°	63.0	31.0	37.8	42.6	41.7
97.5°	113.4	33.9	49.4	52.3	53.3
100°	171.5	38.8	55.2	63.0	64.9
102.5°	235.5	233.5	57.2	67.8	70.7
105°	294.6	323.7	59.1	69.8	73.6
107.5°	363.4	387.6	61.0	71.7	75.6
110°	429.3	449.6	169.6	72.7	76.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	491.3	508.7	492.3	74.6	77.5
115°	557.2	573.7	597.9	149.2	79.5
117.5°	614.4	633.8	650.2	511.7	257.8
120°	678.3	692.9	710.3	721.9	591.1
122.5°	732.6	748.1	767.5	773.3	774.3
125°	787.8	800.4	818.8	825.6	828.5
127.5°	838.2	851.8	866.3	876.0	877.0
130°	885.7	901.2	911.9	922.5	921.6
132.5°	934.2	946.8	957.4	966.1	965.2
135°	974.9	990.4	999.1	1008.8	1006.8
137.5°	1017.5	1029.1	1038.8	1048.5	1045.6
140°	1059.2	1066.9	1077.6	1086.3	1081.5
142.5°	1094.1	1100.8	1113.4	1121.2	1116.3
145°	1130.9	1129.9	1146.4	1153.2	1148.3
147.5°	1162.9	1159.9	1176.4	1181.3	1177.4
150°	1193.9	1187.1	1202.6	1208.4	1203.6
152.5°	1220.0	1212.3	1226.8	1232.6	1225.8
155°	1245.2	1236.5	1248.1	1253.9	1246.2
157.5°	1265.6	1257.8	1266.5	1273.3	1265.6
160°	1283.0	1277.2	1283.0	1288.8	1282.0
162.5°	1298.5	1292.7	1297.6	1304.3	1295.6
165°	1312.1	1306.3	1309.2	1316.0	1309.2
167.5°	1322.7	1316.9	1319.8	1326.6	1317.9
170°	1331.5	1325.7	1327.6	1334.4	1325.7
172.5°	1337.3	1331.5	1333.4	1340.2	1331.5
175°	1342.1	1335.3	1337.3	1344.1	1334.4
177.5°	1344.1	1337.3	1338.3	1345.0	1336.3
180°	1339.2	1339.2	1339.2	1339.2	1339.2

(END OF REPORT)