

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: P334883

Luminaire Tested: **S124IW-S1340U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124IW-S1340U930-4F0-1E-UDD-1  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 1340 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3796.3 lumens  
Efficiency: N/A  
Efficacy: 147.7 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

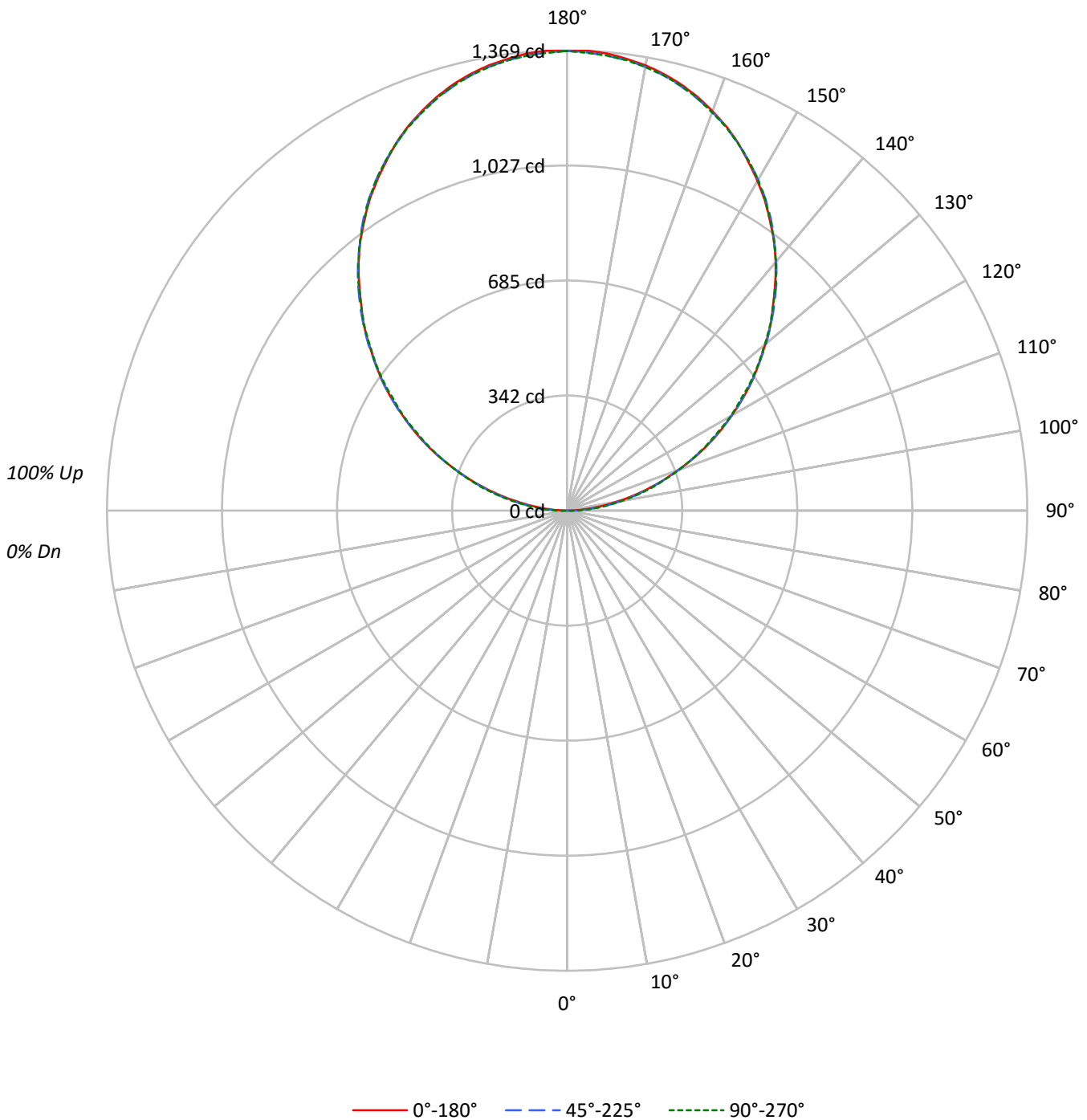
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P334883

CATALOG NUMBER: S124IW-S1340U930-4F0-1E-UDD-1

### Luminous Intensity Polar Plot





TEST NUMBER: P334883

CATALOG NUMBER: S124IW-S1340U930-4F0-1E-UDD-1

**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



TEST NUMBER: P334883

CATALOG NUMBER: S124IW-S1340U930-4F0-1E-UDD-1

**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°	2.9	0.1
90°-100°	89.1	2.3
100°-110°	266.9	7.0
110°-120°	453.4	11.9
120°-130°	598.0	15.8
130°-140°	671.7	17.7
140°-150°	660.2	17.4
150°-160°	555.2	14.6
160°-170°	369.4	9.7
170°-180°	129.4	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.9	0.1
90°-120°	809.5	21.3
90°-150°	2739.3	72.2
90°-180°	3793.0	99.9
0°-180°	3796.3	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°	3	15	23	30	32	5
95°	63	73	80	84	84	69
105°	246	247	252	255	258	261
115°	461	461	459	458	457	455
125°	671	671	670	668	666	598
135°	866	872	872	870	867	670
145°	1052	1056	1057	1056	1053	659
155°	1205	1205	1204	1208	1204	555
165°	1312	1309	1307	1313	1309	370
175°	1365	1360	1359	1366	1359	130
180°	1367	1367	1367	1367	1367	



TEST NUMBER: P334883

CATALOG NUMBER: S124IW-S1340U930-4F0-1E-UDD-1

**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°	3.2	14.8	23.3	29.6	31.7
92.5°	27.5	41.2	46.5	49.7	50.8
95°	63.4	73.0	80.4	83.5	83.5
97.5°	101.5	110.0	118.4	122.7	122.7
100°	148.0	152.3	161.8	163.9	163.9
102.5°	196.7	197.7	206.2	209.4	210.4
105°	246.4	247.4	251.6	254.8	258.0
107.5°	298.2	299.2	300.3	304.5	303.5
110°	351.0	353.2	352.1	350.0	353.2



TEST NUMBER: P334883

CATALOG NUMBER: S124IW-S1340U930-4F0-1E-UDD-1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	406.0	406.0	403.9	403.9	403.9
115°	461.0	461.0	458.9	457.8	456.8
117.5°	512.8	512.8	511.8	508.6	505.4
120°	564.6	568.9	565.7	560.4	562.5
122.5°	618.5	619.6	618.5	615.4	610.1
125°	671.4	671.4	670.4	668.2	666.1
127.5°	719.0	722.2	720.1	717.9	716.9
130°	769.7	772.9	772.9	770.8	766.6
132.5°	821.6	823.7	822.6	820.5	819.4
135°	866.0	872.3	872.3	870.2	867.0
137.5°	915.7	918.8	921.0	917.8	918.8
140°	965.4	967.5	967.5	966.4	965.4
142.5°	1010.8	1012.9	1011.9	1011.9	1011.9
145°	1052.1	1056.3	1057.3	1056.3	1053.1
147.5°	1094.4	1099.6	1098.6	1097.5	1096.5
150°	1132.4	1136.6	1136.6	1136.6	1135.6
152.5°	1168.4	1170.5	1171.5	1174.7	1171.5
155°	1205.4	1205.4	1204.3	1208.5	1204.3
157.5°	1237.1	1235.0	1235.0	1238.2	1235.0
160°	1264.6	1263.5	1262.5	1265.6	1260.4
162.5°	1290.0	1286.8	1285.7	1292.1	1286.8
165°	1312.2	1309.0	1306.9	1313.2	1309.0
167.5°	1330.1	1325.9	1325.9	1332.3	1325.9
170°	1344.9	1339.7	1340.7	1347.1	1339.7
172.5°	1355.5	1351.3	1351.3	1358.7	1351.3
175°	1365.0	1359.7	1358.7	1366.1	1358.7
177.5°	1369.3	1364.0	1364.0	1371.4	1362.9
180°	1367.2	1367.2	1367.2	1367.2	1367.2

(END OF REPORT)