

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: P334953

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
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
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1340 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

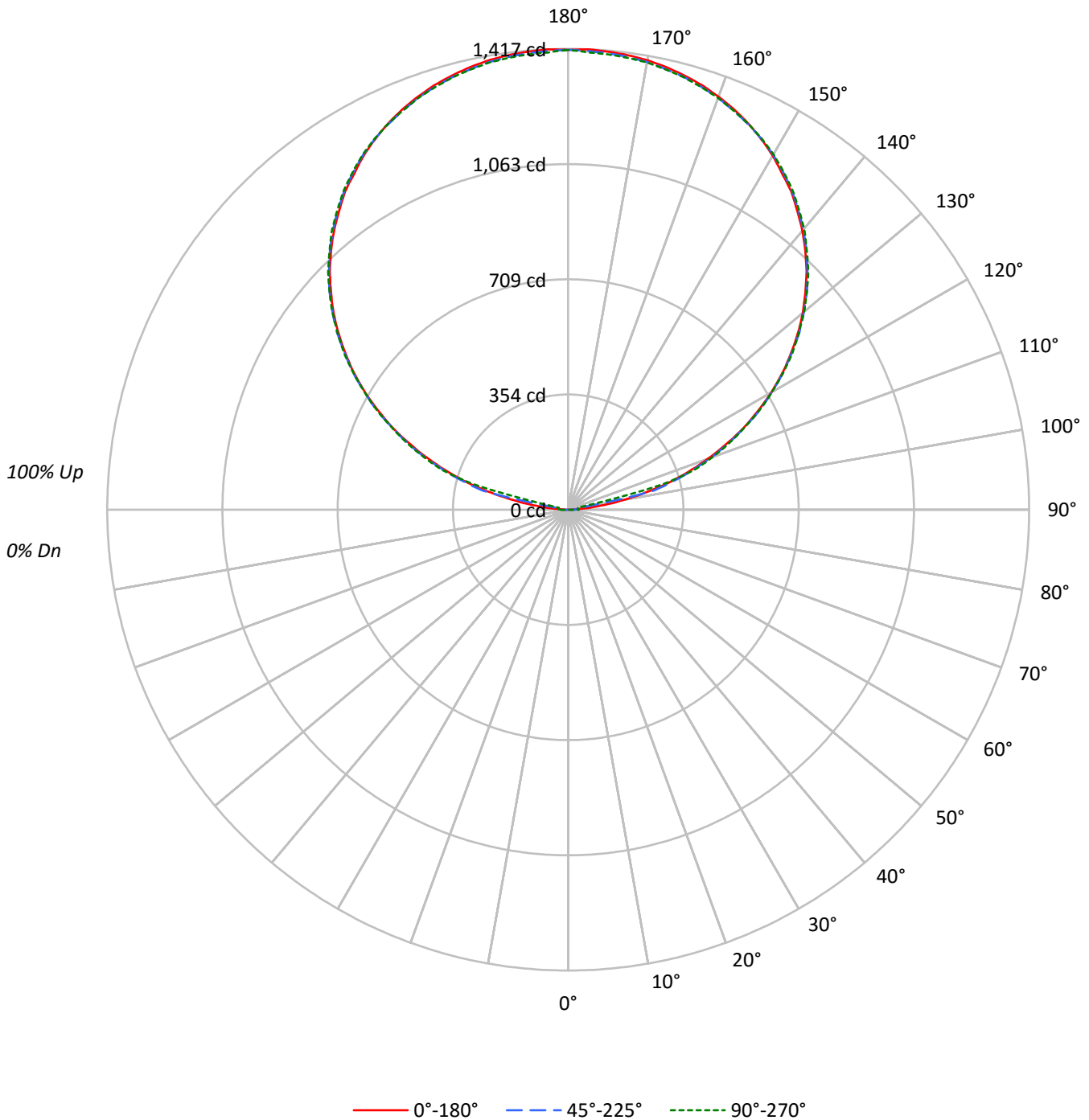
Lumens per Lamp: N/A
Luminaire Lumens: 4377.9 lumens
Efficiency: N/A
Efficacy: 170.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (A_{in}): 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: P334953
CATALOG NUMBER: S124IW-S1340U930-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334953

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

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: P334953

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

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°	46.9	1.1
100°-110°	309.1	7.1
110°-120°	590.2	13.5
120°-130°	749.2	17.1
130°-140°	801.5	18.3
140°-150°	749.5	17.1
150°-160°	604.4	13.8
160°-170°	389.8	8.9
170°-180°	134.3	3.1
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°	946.2	21.6
90°-150°	3246.5	74.2
90°-180°	4375.0	99.9
0°-180°	4377.9	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	3
95°	58	22	23	30	31	72
105°	318	325	330	340	301	333
115°	594	598	596	598	598	585
125°	835	840	838	841	842	746
135°	1036	1035	1040	1042	1044	799
145°	1195	1198	1198	1199	1201	747
155°	1310	1311	1308	1312	1309	604
165°	1382	1377	1377	1385	1376	391
175°	1414	1408	1409	1418	1405	135
180°	1414	1414	1414	1414	1414	



TEST NUMBER: P334953

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

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°	15.9	13.7	22.2	28.6	28.6
95°	58.2	22.2	23.3	29.6	30.7
97.5°	111.0	134.3	23.3	28.6	29.6
100°	173.4	192.5	46.5	28.6	29.6
102.5°	243.2	255.9	268.6	30.7	30.7
105°	318.3	324.6	329.9	339.5	301.4
107.5°	387.0	390.2	397.6	402.9	407.1
110°	456.8	460.0	466.4	468.5	471.6



TEST NUMBER: P334953

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	524.5	530.9	533.0	531.9	536.1
115°	594.3	597.5	596.4	598.5	598.5
117.5°	656.7	660.9	664.1	663.0	663.0
120°	720.2	724.4	723.3	725.4	723.3
122.5°	779.4	781.5	783.6	784.7	782.5
125°	835.4	839.6	837.5	840.7	841.8
127.5°	889.3	890.4	895.7	894.6	893.6
130°	941.2	942.2	945.4	946.5	946.5
132.5°	988.8	990.9	995.1	996.2	995.1
135°	1036.3	1035.3	1039.5	1041.6	1043.7
137.5°	1078.6	1078.6	1083.9	1086.0	1085.0
140°	1119.9	1122.0	1124.1	1127.3	1128.3
142.5°	1156.9	1161.1	1162.2	1164.3	1164.3
145°	1195.0	1198.1	1198.1	1199.2	1201.3
147.5°	1224.6	1230.9	1229.9	1230.9	1232.0
150°	1257.4	1261.6	1260.5	1260.5	1261.6
152.5°	1284.8	1288.0	1285.9	1288.0	1287.0
155°	1310.2	1311.3	1308.1	1312.3	1309.2
157.5°	1332.4	1332.4	1328.2	1333.5	1328.2
160°	1351.5	1348.3	1347.2	1353.6	1347.2
162.5°	1368.4	1364.2	1363.1	1369.4	1362.0
165°	1382.1	1376.9	1376.9	1385.3	1375.8
167.5°	1393.8	1388.5	1387.4	1396.9	1386.4
170°	1403.3	1396.9	1398.0	1406.5	1395.9
172.5°	1409.6	1403.3	1404.3	1412.8	1401.2
175°	1413.9	1407.5	1408.6	1418.1	1405.4
177.5°	1417.0	1409.6	1411.7	1420.2	1407.5
180°	1413.9	1413.9	1413.9	1413.9	1413.9

(END OF REPORT)