

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: P334938

Luminaire Tested: **S124IW-S1340U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334938
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-S1340U835-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1340 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5369.7 lumens
Efficiency: N/A
Efficacy: 208.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

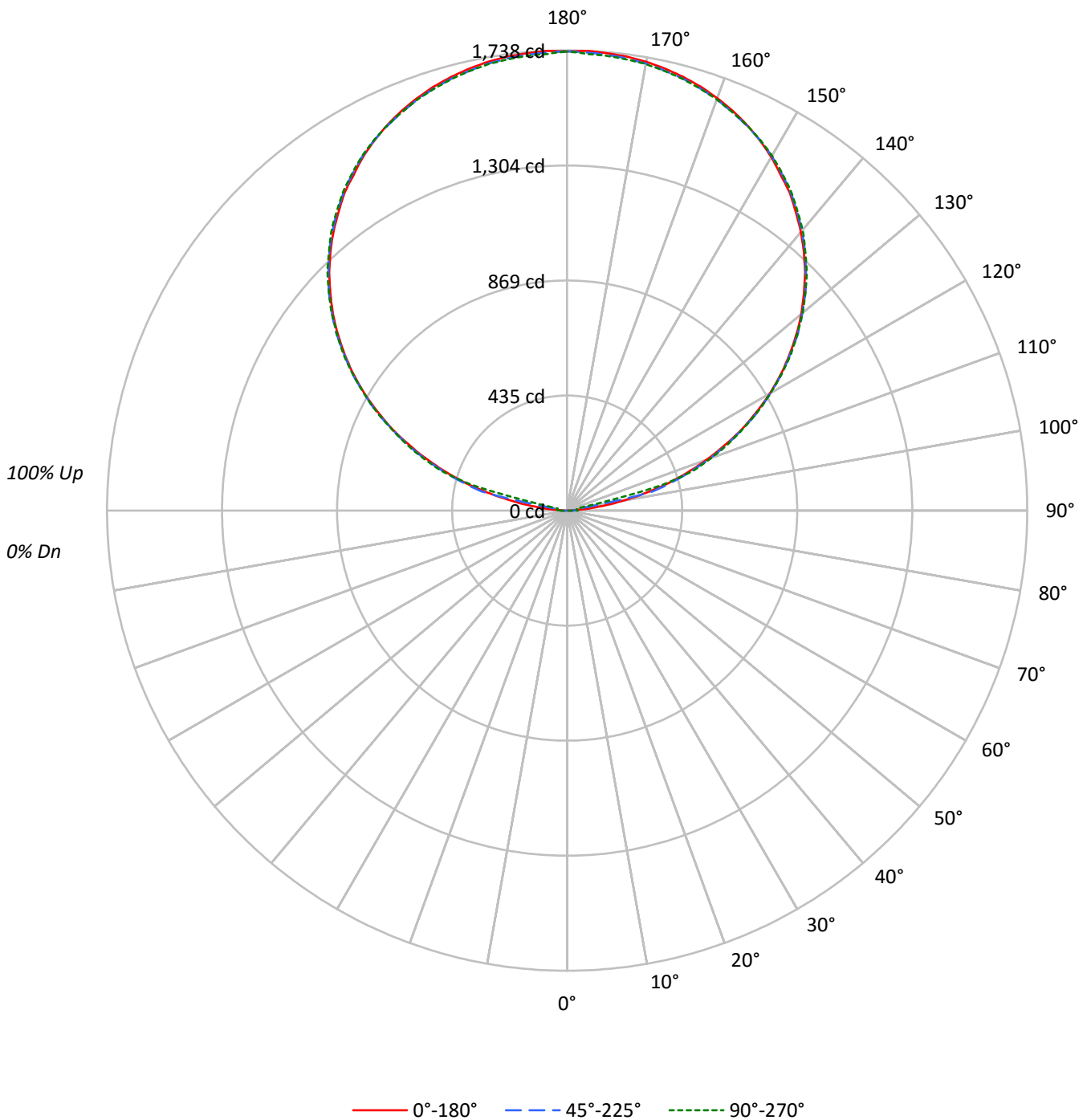
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334938

CATALOG NUMBER: S124IW-S1340U835-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334938

CATALOG NUMBER: S124IW-S1340U835-4F0-1E-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: P334938

CATALOG NUMBER: S124IW-S1340U835-4F0-1E-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°	3.6	0.1
90°-100°	57.5	1.1
100°-110°	379.1	7.1
110°-120°	723.9	13.5
120°-130°	919.0	17.1
130°-140°	983.1	18.3
140°-150°	919.3	17.1
150°-160°	741.3	13.8
160°-170°	478.1	8.9
170°-180°	164.8	3.1
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°	1160.6	21.6
90°-150°	3981.9	74.2
90°-180°	5366.0	99.9
0°-180°	5369.7	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°	4	18	28	36	39	4
95°	71	27	28	36	38	88
105°	390	398	405	416	370	409
115°	729	733	732	734	734	717
125°	1025	1030	1027	1031	1032	915
135°	1271	1270	1275	1278	1280	979
145°	1466	1470	1470	1471	1474	916
155°	1607	1608	1604	1610	1606	741
165°	1695	1689	1689	1699	1688	479
175°	1734	1726	1728	1739	1724	165
180°	1734	1734	1734	1734	1734	



TEST NUMBER: P334938

CATALOG NUMBER: S124IW-S1340U835-4F0-1E-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°	3.9	18.2	28.5	36.3	38.9
92.5°	19.5	16.9	27.2	35.0	35.0
95°	71.3	27.2	28.5	36.3	37.6
97.5°	136.2	164.7	28.5	35.0	36.3
100°	212.7	236.1	57.1	35.0	36.3
102.5°	298.3	313.9	329.5	37.6	37.6
105°	390.4	398.2	404.7	416.4	369.7
107.5°	474.7	478.6	487.7	494.2	499.4
110°	560.3	564.2	572.0	574.6	578.5



TEST NUMBER: P334938

CATALOG NUMBER: S124IW-S1340U835-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	643.3	651.1	653.7	652.4	657.6
115°	728.9	732.8	731.5	734.1	734.1
117.5°	805.5	810.7	814.6	813.3	813.3
120°	883.3	888.5	887.2	889.8	887.2
122.5°	955.9	958.5	961.1	962.4	959.8
125°	1024.7	1029.9	1027.3	1031.2	1032.5
127.5°	1090.8	1092.1	1098.6	1097.3	1096.0
130°	1154.4	1155.7	1159.6	1160.9	1160.9
132.5°	1212.7	1215.3	1220.5	1221.8	1220.5
135°	1271.1	1269.8	1275.0	1277.6	1280.2
137.5°	1323.0	1323.0	1329.5	1332.1	1330.8
140°	1373.6	1376.2	1378.8	1382.7	1384.0
142.5°	1419.0	1424.2	1425.5	1428.1	1428.1
145°	1465.7	1469.6	1469.6	1470.9	1473.5
147.5°	1502.0	1509.8	1508.5	1509.8	1511.1
150°	1542.2	1547.4	1546.1	1546.1	1547.4
152.5°	1575.9	1579.8	1577.2	1579.8	1578.5
155°	1607.1	1608.4	1604.5	1609.6	1605.8
157.5°	1634.3	1634.3	1629.1	1635.6	1629.1
160°	1657.6	1653.7	1652.5	1660.2	1652.5
162.5°	1678.4	1673.2	1671.9	1679.7	1670.6
165°	1695.3	1688.8	1688.8	1699.1	1687.5
167.5°	1709.5	1703.0	1701.7	1713.4	1700.4
170°	1721.2	1713.4	1714.7	1725.1	1712.1
172.5°	1729.0	1721.2	1722.5	1732.9	1718.6
175°	1734.2	1726.4	1727.7	1739.4	1723.8
177.5°	1738.1	1729.0	1731.6	1741.9	1726.4
180°	1734.2	1734.2	1734.2	1734.2	1734.2

(END OF REPORT)