

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: P334958

Luminaire Tested: **S124IW-S1340U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334958
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-S1340U935-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1340 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4623.3 lumens
Efficiency: N/A
Efficacy: 179.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

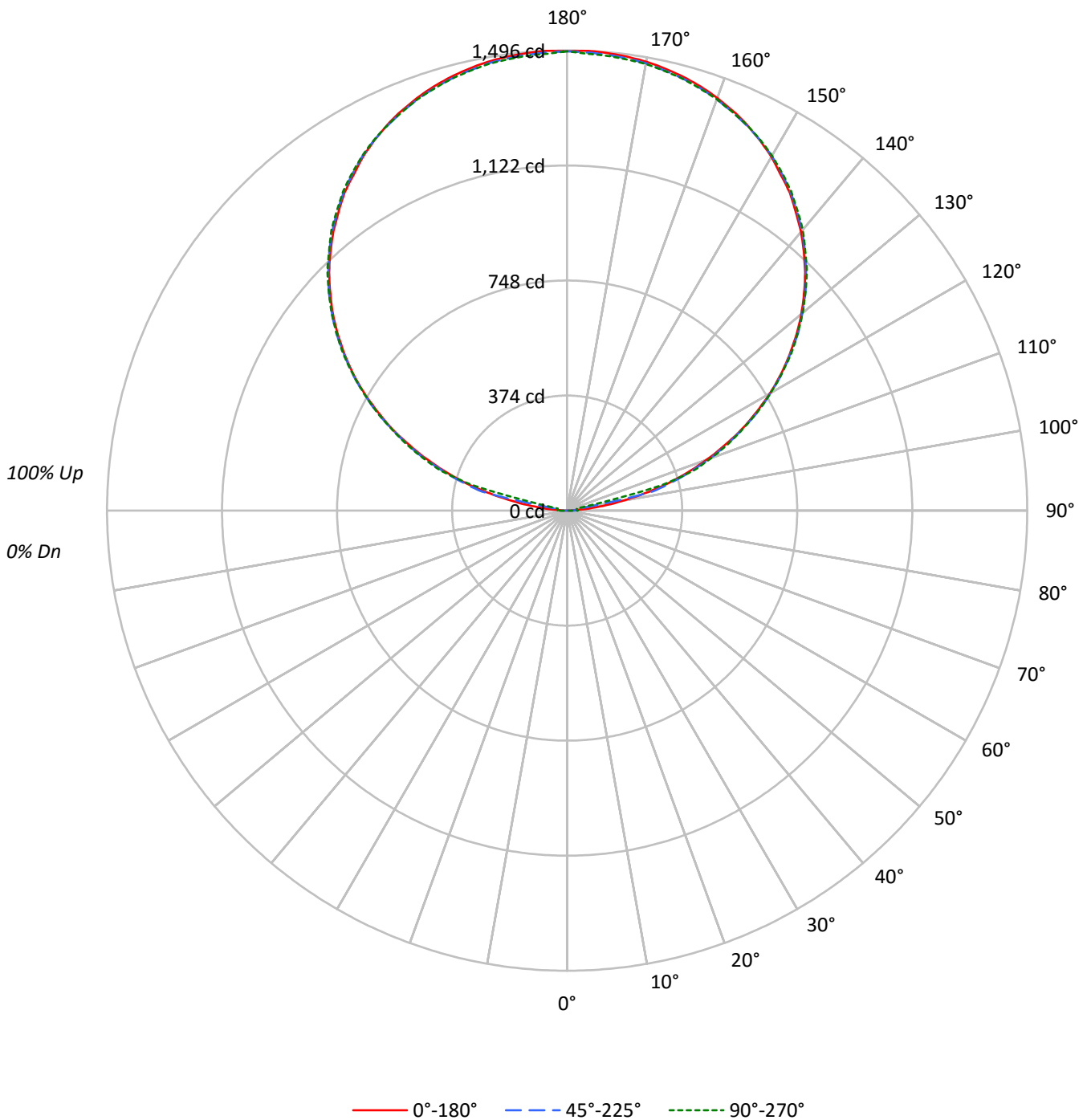
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.1	0.1
90°-100°	49.6	1.1
100°-110°	326.4	7.1
110°-120°	623.3	13.5
120°-130°	791.2	17.1
130°-140°	846.5	18.3
140°-150°	791.5	17.1
150°-160°	638.3	13.8
160°-170°	411.6	8.9
170°-180°	141.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.1	0.1
90°-120°	999.3	21.6
90°-150°	3428.5	74.2
90°-180°	4620.0	99.9
0°-180°	4623.3	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	16	25	31	34	3
95°	61	24	25	31	32	76
105°	336	343	348	358	318	352
115°	628	631	630	632	632	618
125°	882	887	884	888	889	788
135°	1094	1093	1098	1100	1102	843
145°	1262	1265	1265	1266	1269	789
155°	1384	1385	1381	1386	1383	638
165°	1460	1454	1454	1463	1453	412
175°	1493	1486	1488	1498	1484	142
180°	1493	1493	1493	1493	1493	



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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°	3.4	15.6	24.6	31.3	33.5
92.5°	16.8	14.5	23.5	30.2	30.2
95°	61.4	23.5	24.6	31.3	32.4
97.5°	117.3	141.8	24.6	30.2	31.3
100°	183.1	203.3	49.1	30.2	31.3
102.5°	256.9	270.3	283.7	32.4	32.4
105°	336.1	342.8	348.4	358.5	318.3
107.5°	408.7	412.1	419.9	425.5	430.0
110°	482.4	485.8	492.5	494.7	498.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	553.9	560.6	562.9	561.7	566.2
115°	627.6	631.0	629.9	632.1	632.1
117.5°	693.5	698.0	701.3	700.2	700.2
120°	760.5	765.0	763.9	766.1	763.9
122.5°	823.1	825.3	827.5	828.6	826.4
125°	882.2	886.7	884.5	887.8	888.9
127.5°	939.2	940.3	945.9	944.8	943.7
130°	993.9	995.0	998.4	999.5	999.5
132.5°	1044.2	1046.4	1050.9	1052.0	1050.9
135°	1094.4	1093.3	1097.8	1100.0	1102.2
137.5°	1139.1	1139.1	1144.7	1146.9	1145.8
140°	1182.7	1184.9	1187.1	1190.5	1191.6
142.5°	1221.7	1226.2	1227.3	1229.6	1229.6
145°	1261.9	1265.3	1265.3	1266.4	1268.6
147.5°	1293.2	1299.9	1298.8	1299.9	1301.0
150°	1327.8	1332.3	1331.2	1331.2	1332.3
152.5°	1356.9	1360.2	1358.0	1360.2	1359.1
155°	1383.7	1384.8	1381.4	1385.9	1382.6
157.5°	1407.1	1407.1	1402.7	1408.2	1402.7
160°	1427.2	1423.9	1422.8	1429.5	1422.8
162.5°	1445.1	1440.6	1439.5	1446.2	1438.4
165°	1459.6	1454.0	1454.0	1463.0	1452.9
167.5°	1471.9	1466.3	1465.2	1475.2	1464.1
170°	1481.9	1475.2	1476.4	1485.3	1474.1
172.5°	1488.6	1481.9	1483.1	1492.0	1479.7
175°	1493.1	1486.4	1487.5	1497.6	1484.2
177.5°	1496.5	1488.6	1490.9	1499.8	1486.4
180°	1493.1	1493.1	1493.1	1493.1	1493.1

(END OF REPORT)