

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: P334959

Luminaire Tested: **S124IW-S1560U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334959
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-S1560U935-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1560 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5375.4 lumens
Efficiency: N/A
Efficacy: 175.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

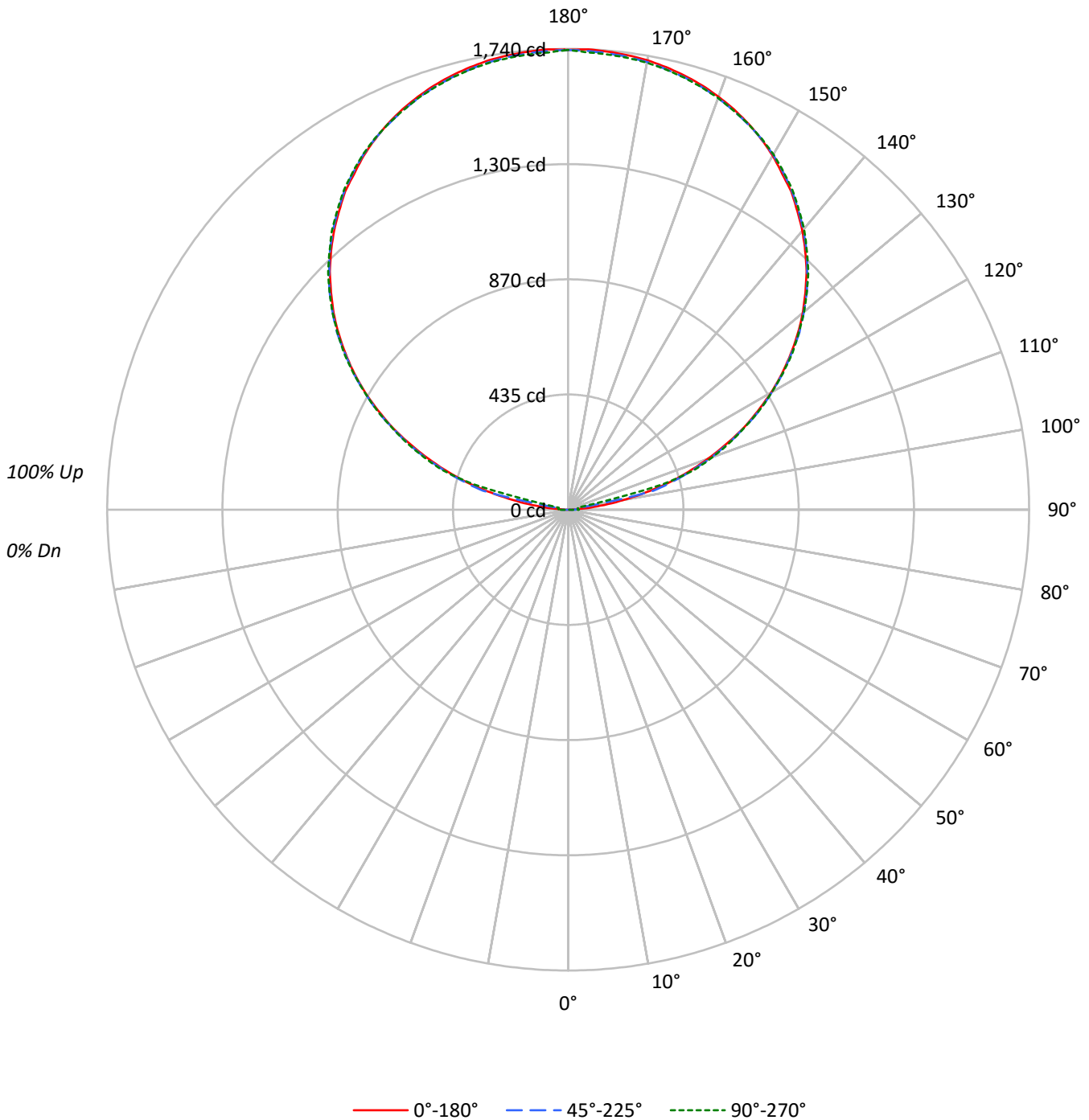
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334959

CATALOG NUMBER: S124IW-S1560U935-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334959

CATALOG NUMBER: S124IW-S1560U935-4F0-1E-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: P334959

CATALOG NUMBER: S124IW-S1560U935-4F0-1E-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°	57.6	1.1
100°-110°	379.5	7.1
110°-120°	724.7	13.5
120°-130°	919.9	17.1
130°-140°	984.1	18.3
140°-150°	920.3	17.1
150°-160°	742.1	13.8
160°-170°	478.6	8.9
170°-180°	164.9	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°	1161.8	21.6
90°-150°	3986.1	74.2
90°-180°	5372.0	99.9
0°-180°	5375.4	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	29	36	39	4
95°	71	27	29	36	38	88
105°	391	399	405	417	370	409
115°	730	734	732	735	735	718
125°	1026	1031	1028	1032	1034	916
135°	1272	1271	1276	1279	1282	980
145°	1467	1471	1471	1472	1475	917
155°	1609	1610	1606	1611	1607	742
165°	1697	1690	1690	1701	1689	480
175°	1736	1728	1730	1741	1726	165
180°	1736	1736	1736	1736	1736	



TEST NUMBER: P334959

CATALOG NUMBER: S124IW-S1560U935-4F0-1E-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	28.6	36.4	39.0
92.5°	19.5	16.9	27.3	35.1	35.1
95°	71.4	27.3	28.6	36.4	37.7
97.5°	136.3	164.9	28.6	35.1	36.4
100°	212.9	236.3	57.1	35.1	36.4
102.5°	298.6	314.2	329.8	37.7	37.7
105°	390.8	398.6	405.1	416.8	370.1
107.5°	475.2	479.1	488.2	494.7	499.9
110°	560.9	564.8	572.6	575.2	579.1



TEST NUMBER: P334959

CATALOG NUMBER: S124IW-S1560U935-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	644.0	651.8	654.4	653.1	658.3
115°	729.7	733.6	732.3	734.9	734.9
117.5°	806.3	811.5	815.4	814.1	814.1
120°	884.2	889.4	888.1	890.7	888.1
122.5°	956.9	959.5	962.1	963.4	960.8
125°	1025.8	1030.9	1028.4	1032.2	1033.5
127.5°	1092.0	1093.3	1099.8	1098.5	1097.2
130°	1155.6	1156.9	1160.8	1162.1	1162.1
132.5°	1214.0	1216.6	1221.8	1223.1	1221.8
135°	1272.5	1271.2	1276.3	1278.9	1281.5
137.5°	1324.4	1324.4	1330.9	1333.5	1332.2
140°	1375.0	1377.6	1380.2	1384.1	1385.4
142.5°	1420.5	1425.7	1427.0	1429.6	1429.6
145°	1467.2	1471.1	1471.1	1472.4	1475.0
147.5°	1503.6	1511.4	1510.1	1511.4	1512.7
150°	1543.8	1549.0	1547.7	1547.7	1549.0
152.5°	1577.6	1581.5	1578.9	1581.5	1580.2
155°	1608.7	1610.0	1606.1	1611.3	1607.4
157.5°	1636.0	1636.0	1630.8	1637.3	1630.8
160°	1659.4	1655.5	1654.2	1662.0	1654.2
162.5°	1680.2	1675.0	1673.7	1681.5	1672.4
165°	1697.0	1690.5	1690.5	1700.9	1689.2
167.5°	1711.3	1704.8	1703.5	1715.2	1702.2
170°	1723.0	1715.2	1716.5	1726.9	1713.9
172.5°	1730.8	1723.0	1724.3	1734.7	1720.4
175°	1736.0	1728.2	1729.5	1741.2	1725.6
177.5°	1739.9	1730.8	1733.4	1743.8	1728.2
180°	1736.0	1736.0	1736.0	1736.0	1736.0

(END OF REPORT)