

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: P334889

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334889
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-S1560U935-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 4661.2 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

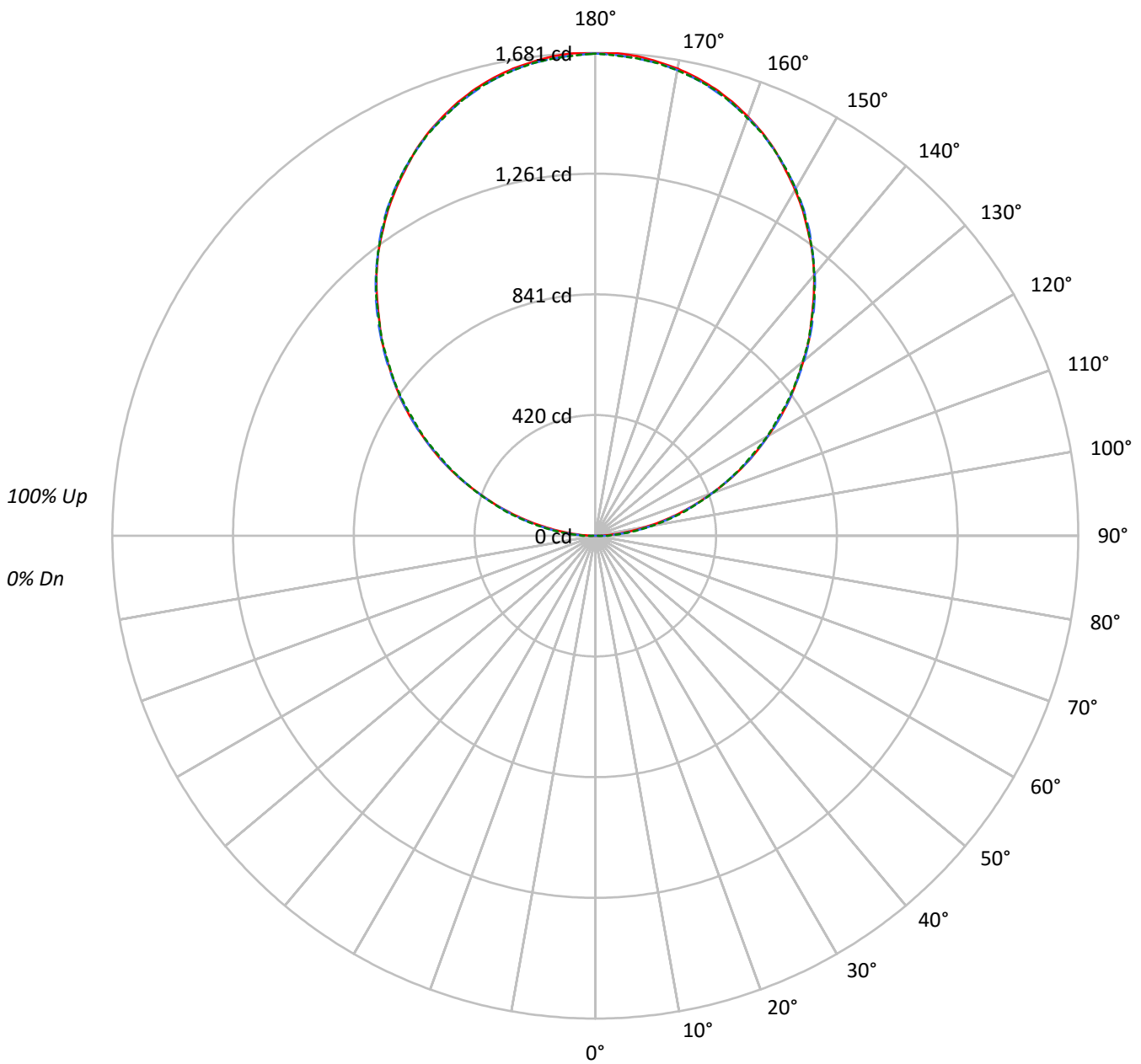
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334889

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

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P334889

CATALOG NUMBER: S124IW-S1560U935-4F0-1E-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: P334889

CATALOG NUMBER: S124IW-S1560U935-4F0-1E-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°	3.6	0.1
90°-100°	109.4	2.3
100°-110°	327.7	7.0
110°-120°	556.7	11.9
120°-130°	734.3	15.8
130°-140°	824.7	17.7
140°-150°	810.6	17.4
150°-160°	681.7	14.6
160°-170°	453.6	9.7
170°-180°	158.8	3.4
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°	993.9	21.3
90°-150°	3363.4	72.2
90°-180°	4658.0	99.9
0°-180°	4661.2	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	6
95°	78	90	99	103	103	84
105°	302	304	309	313	317	321
115°	566	566	563	562	561	558
125°	824	824	823	820	818	735
135°	1063	1071	1071	1068	1065	823
145°	1292	1297	1298	1297	1293	809
155°	1480	1480	1479	1484	1479	681
165°	1611	1607	1605	1612	1607	454
175°	1676	1670	1668	1677	1668	159
180°	1679	1679	1679	1679	1679	



TEST NUMBER: P334889

CATALOG NUMBER: S124IW-S1560U935-4F0-1E-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°	3.9	18.2	28.6	36.4	38.9
92.5°	33.8	50.6	57.1	61.0	62.3
95°	77.9	89.6	98.7	102.6	102.6
97.5°	124.6	135.0	145.4	150.6	150.6
100°	181.8	186.9	198.6	201.2	201.2
102.5°	241.5	242.8	253.2	257.1	258.4
105°	302.5	303.8	309.0	312.9	316.8
107.5°	366.1	367.4	368.7	373.9	372.6
110°	431.0	433.6	432.3	429.7	433.6



TEST NUMBER: P334889

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	498.5	498.5	495.9	495.9	495.9
115°	566.0	566.0	563.4	562.1	560.8
117.5°	629.7	629.7	628.4	624.5	620.6
120°	693.3	698.5	694.6	688.1	690.7
122.5°	759.5	760.8	759.5	755.6	749.1
125°	824.4	824.4	823.1	820.5	817.9
127.5°	882.8	886.7	884.1	881.5	880.2
130°	945.1	949.0	949.0	946.4	941.2
132.5°	1008.7	1011.3	1010.0	1007.4	1006.1
135°	1063.3	1071.1	1071.1	1068.5	1064.6
137.5°	1124.3	1128.2	1130.8	1126.9	1128.2
140°	1185.3	1187.9	1187.9	1186.6	1185.3
142.5°	1241.1	1243.7	1242.4	1242.4	1242.4
145°	1291.8	1297.0	1298.2	1297.0	1293.1
147.5°	1343.7	1350.2	1348.9	1347.6	1346.3
150°	1390.4	1395.6	1395.6	1395.6	1394.3
152.5°	1434.6	1437.2	1438.5	1442.4	1438.5
155°	1480.0	1480.0	1478.7	1483.9	1478.7
157.5°	1519.0	1516.4	1516.4	1520.2	1516.4
160°	1552.7	1551.4	1550.1	1554.0	1547.5
162.5°	1583.9	1580.0	1578.7	1586.5	1580.0
165°	1611.1	1607.2	1604.6	1612.4	1607.2
167.5°	1633.2	1628.0	1628.0	1635.8	1628.0
170°	1651.4	1644.9	1646.2	1654.0	1644.9
172.5°	1664.4	1659.2	1659.2	1668.2	1659.2
175°	1676.0	1669.5	1668.2	1677.3	1668.2
177.5°	1681.2	1674.7	1674.7	1683.8	1673.4
180°	1678.6	1678.6	1678.6	1678.6	1678.6

(END OF REPORT)