

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: P334954

Luminaire Tested: **S124IW-S1560U930-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334954  
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-S1560U930-4F0-1E-UDD  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1560 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

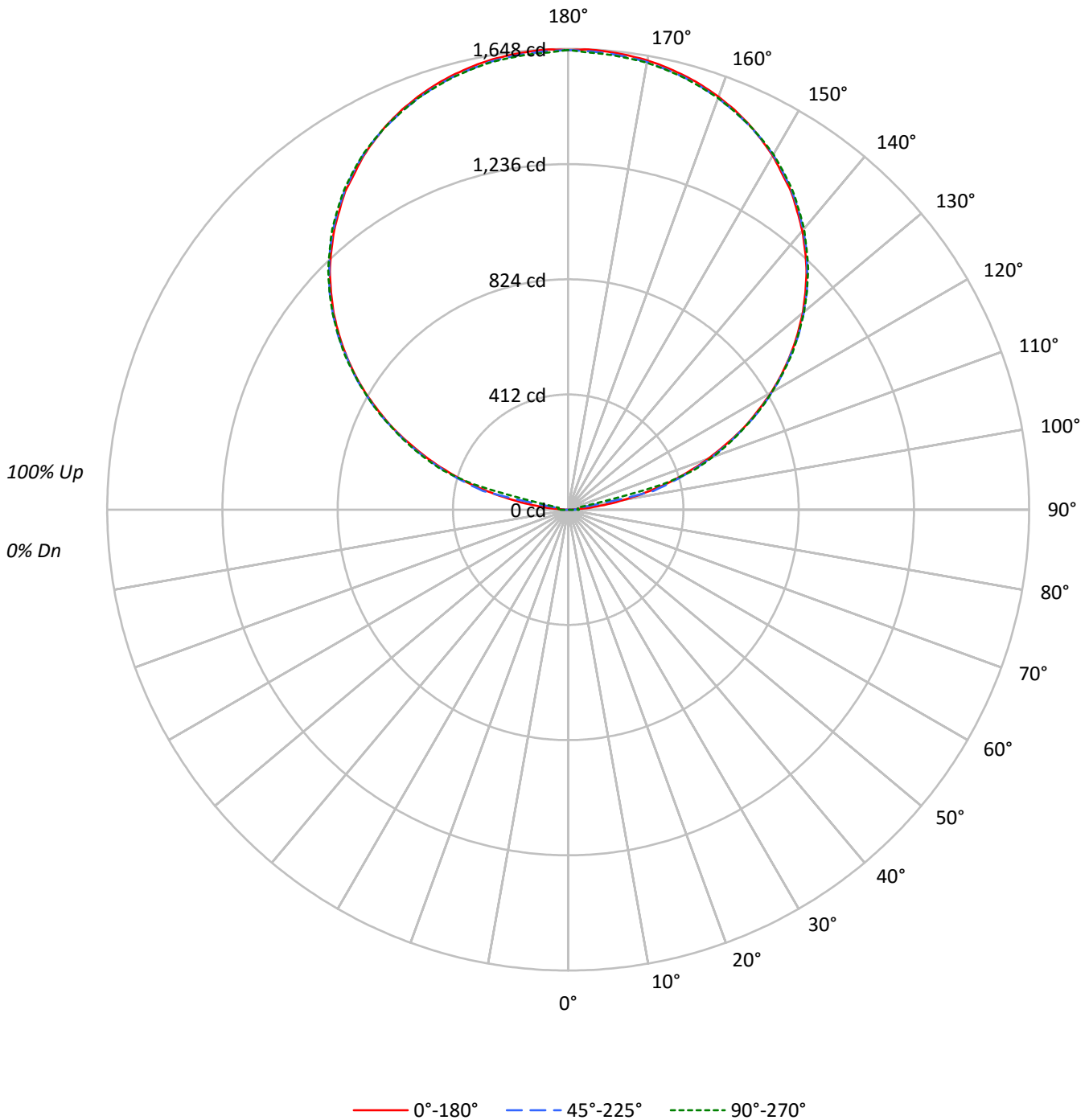
Lumens per Lamp: N/A  
Luminaire Lumens: 5090.0 lumens  
Efficiency: N/A  
Efficacy: 166.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

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



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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°	3.4	0.1
90°-100°	54.5	1.1
100°-110°	359.4	7.1
110°-120°	686.2	13.5
120°-130°	871.1	17.1
130°-140°	931.9	18.3
140°-150°	871.4	17.1
150°-160°	702.7	13.8
160°-170°	453.2	8.9
170°-180°	156.2	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.4	0.1
90°-120°	1100.1	21.6
90°-150°	3774.5	74.2
90°-180°	5087.0	99.9
0°-180°	5090.0	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	17	27	34	37	4
95°	68	26	27	34	36	83
105°	370	378	384	395	350	387
115°	691	695	693	696	696	680
125°	971	976	974	978	979	867
135°	1205	1204	1209	1211	1214	928
145°	1389	1393	1393	1394	1397	868
155°	1523	1525	1521	1526	1522	702
165°	1607	1601	1601	1611	1600	454
175°	1644	1636	1638	1649	1634	157
180°	1644	1644	1644	1644	1644	



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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°	3.7	17.2	27.0	34.4	36.9
92.5°	18.4	16.0	25.8	33.2	33.2
95°	67.6	25.8	27.0	34.4	35.7
97.5°	129.1	156.1	27.0	33.2	34.4
100°	201.6	223.8	54.1	33.2	34.4
102.5°	282.8	297.5	312.3	35.7	35.7
105°	370.1	377.5	383.6	394.7	350.4
107.5°	450.0	453.7	462.3	468.4	473.4
110°	531.1	534.8	542.2	544.7	548.4



TEST NUMBER: P334954

CATALOG NUMBER: S124IW-S1560U930-4F0-1E-UDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	609.8	617.2	619.7	618.4	623.4
115°	691.0	694.7	693.4	695.9	695.9
117.5°	763.5	768.4	772.1	770.9	770.9
120°	837.3	842.2	841.0	843.4	841.0
122.5°	906.1	908.6	911.1	912.3	909.8
125°	971.3	976.2	973.8	977.5	978.7
127.5°	1034.0	1035.2	1041.4	1040.2	1038.9
130°	1094.3	1095.5	1099.2	1100.4	1100.4
132.5°	1149.6	1152.0	1157.0	1158.2	1157.0
135°	1204.9	1203.7	1208.6	1211.1	1213.5
137.5°	1254.1	1254.1	1260.2	1262.7	1261.5
140°	1302.0	1304.5	1307.0	1310.7	1311.9
142.5°	1345.1	1350.0	1351.2	1353.7	1353.7
145°	1389.3	1393.0	1393.0	1394.3	1396.7
147.5°	1423.8	1431.1	1429.9	1431.1	1432.4
150°	1461.9	1466.8	1465.6	1465.6	1466.8
152.5°	1493.8	1497.5	1495.1	1497.5	1496.3
155°	1523.4	1524.6	1520.9	1525.8	1522.1
157.5°	1549.2	1549.2	1544.3	1550.4	1544.3
160°	1571.3	1567.6	1566.4	1573.8	1566.4
162.5°	1591.0	1586.1	1584.8	1592.2	1583.6
165°	1607.0	1600.8	1600.8	1610.6	1599.6
167.5°	1620.5	1614.3	1613.1	1624.2	1611.9
170°	1631.6	1624.2	1625.4	1635.2	1622.9
172.5°	1638.9	1631.6	1632.8	1642.6	1629.1
175°	1643.8	1636.5	1637.7	1648.8	1634.0
177.5°	1647.5	1638.9	1641.4	1651.2	1636.5
180°	1643.8	1643.8	1643.8	1643.8	1643.8

(END OF REPORT)