

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: P334933

Luminaire Tested: **S124IW-S1340U830-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334933  
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-S1340U830-4F0-1E-UDD  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1340 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5061.2 lumens  
Efficiency: N/A  
Efficacy: 196.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

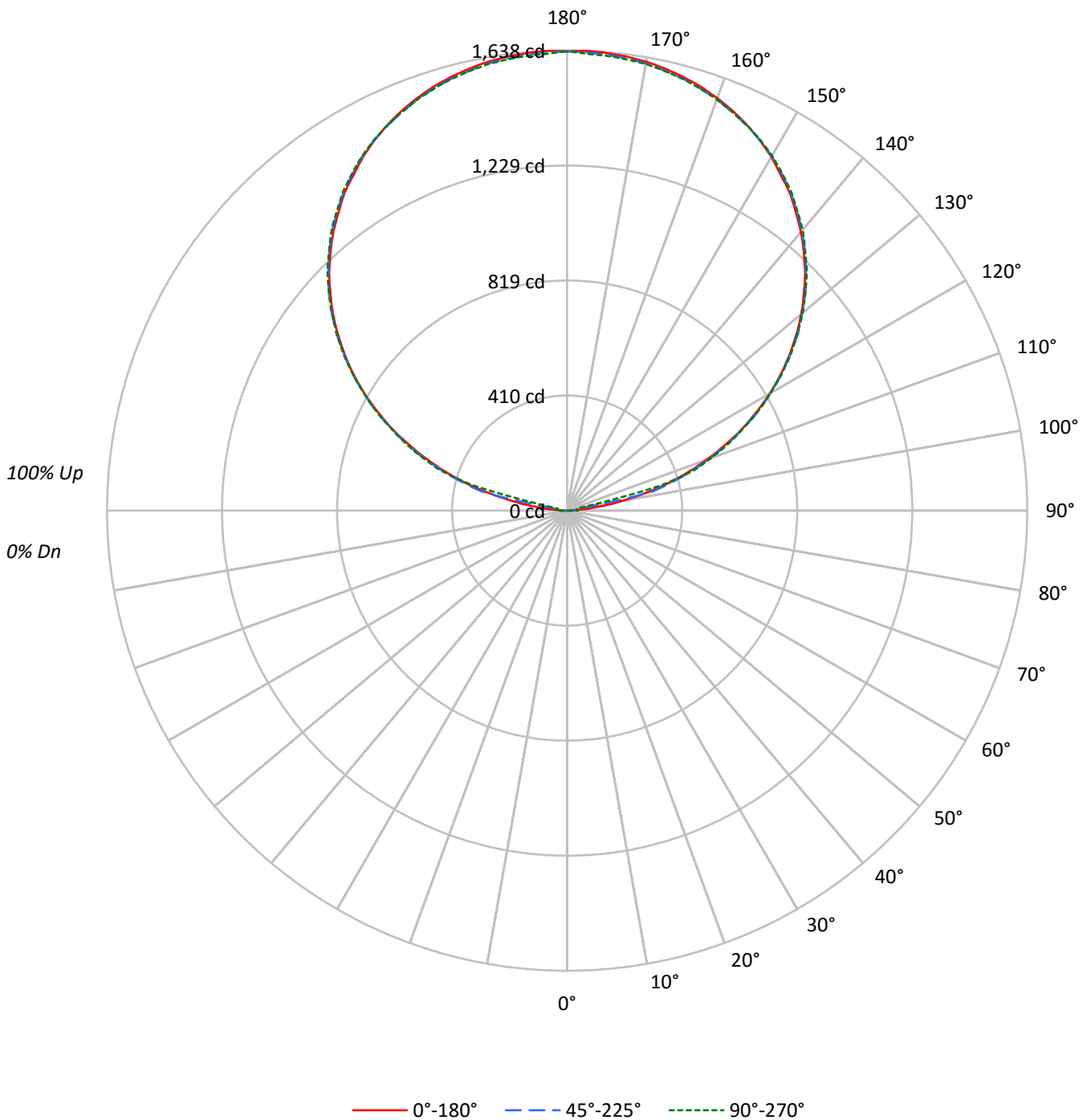
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	54.3	1.1
100°-110°	357.3	7.1
110°-120°	682.3	13.5
120°-130°	866.2	17.1
130°-140°	926.6	18.3
140°-150°	866.5	17.1
150°-160°	698.7	13.8
160°-170°	450.6	8.9
170°-180°	155.3	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°	1093.9	21.6
90°-150°	3753.1	74.2
90°-180°	5058.0	99.9
0°-180°	5061.2	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	17	27	34	37	4
95°	67	26	27	34	36	83
105°	368	375	381	392	348	385
115°	687	691	690	692	692	676
125°	966	971	968	972	973	862
135°	1198	1197	1202	1204	1207	923
145°	1382	1385	1385	1386	1389	863
155°	1515	1516	1512	1517	1514	698
165°	1598	1592	1592	1602	1590	452
175°	1634	1627	1628	1639	1625	156
180°	1634	1634	1634	1634	1634	



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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	17.1	26.9	34.2	36.7
92.5°	18.3	15.9	25.7	33.0	33.0
95°	67.2	25.7	26.9	34.2	35.5
97.5°	128.4	155.3	26.9	33.0	34.2
100°	200.5	222.5	53.8	33.0	34.2
102.5°	281.2	295.9	310.5	35.5	35.5
105°	368.0	375.3	381.4	392.4	348.4
107.5°	447.4	451.1	459.7	465.8	470.7
110°	528.1	531.8	539.1	541.6	545.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	606.4	613.7	616.2	614.9	619.8
115°	687.1	690.7	689.5	692.0	692.0
117.5°	759.2	764.1	767.7	766.5	766.5
120°	832.5	837.4	836.2	838.7	836.2
122.5°	901.0	903.5	905.9	907.1	904.7
125°	965.8	970.7	968.2	971.9	973.1
127.5°	1028.1	1029.4	1035.5	1034.3	1033.0
130°	1088.1	1089.3	1092.9	1094.2	1094.2
132.5°	1143.1	1145.5	1150.4	1151.6	1150.4
135°	1198.1	1196.9	1201.7	1204.2	1206.6
137.5°	1247.0	1247.0	1253.1	1255.5	1254.3
140°	1294.7	1297.1	1299.6	1303.2	1304.4
142.5°	1337.4	1342.3	1343.6	1346.0	1346.0
145°	1381.5	1385.1	1385.1	1386.4	1388.8
147.5°	1415.7	1423.0	1421.8	1423.0	1424.2
150°	1453.6	1458.5	1457.3	1457.3	1458.5
152.5°	1485.4	1489.0	1486.6	1489.0	1487.8
155°	1514.7	1515.9	1512.3	1517.2	1513.5
157.5°	1540.4	1540.4	1535.5	1541.6	1535.5
160°	1562.4	1558.7	1557.5	1564.8	1557.5
162.5°	1582.0	1577.1	1575.8	1583.2	1574.6
165°	1597.8	1591.7	1591.7	1601.5	1590.5
167.5°	1611.3	1605.2	1604.0	1615.0	1602.7
170°	1622.3	1615.0	1616.2	1626.0	1613.7
172.5°	1629.6	1622.3	1623.5	1633.3	1619.9
175°	1634.5	1627.2	1628.4	1639.4	1624.7
177.5°	1638.2	1629.6	1632.1	1641.9	1627.2
180°	1634.5	1634.5	1634.5	1634.5	1634.5

(END OF REPORT)