

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: P334893

Luminaire Tested: **S124IW-S1340U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334893  
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-S1340U940-4F0-1E-UDD-1  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 1340 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4152.1 lumens  
Efficiency: N/A  
Efficacy: 161.6 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

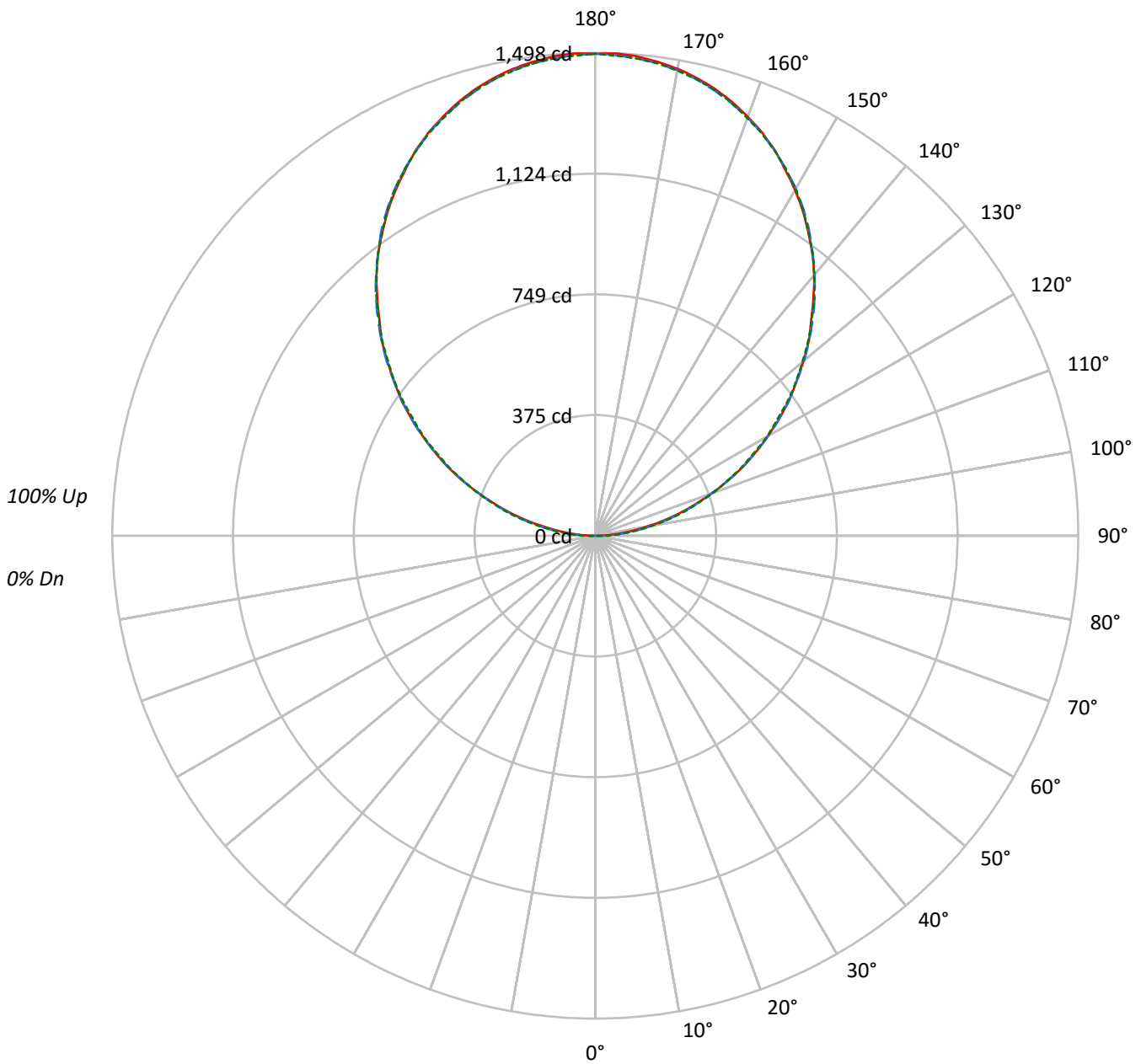
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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°	3.2	0.1
90°-100°	97.5	2.3
100°-110°	291.9	7.0
110°-120°	495.9	11.9
120°-130°	654.1	15.8
130°-140°	734.6	17.7
140°-150°	722.0	17.4
150°-160°	607.3	14.6
160°-170°	404.1	9.7
170°-180°	141.5	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.2	0.1
90°-120°	885.4	21.3
90°-150°	2996.1	72.2
90°-180°	4149.0	99.9
0°-180°	4152.1	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	16	25	32	35	5
95°	69	80	88	91	91	75
105°	270	271	275	279	282	286
115°	504	504	502	501	500	497
125°	734	734	733	731	729	655
135°	947	954	954	952	948	733
145°	1151	1155	1156	1155	1152	720
155°	1318	1318	1317	1322	1317	607
165°	1435	1432	1429	1436	1432	405
175°	1493	1487	1486	1494	1486	142
180°	1495	1495	1495	1495	1495	



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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°	3.5	16.2	25.4	32.4	34.7
92.5°	30.1	45.1	50.9	54.4	55.5
95°	69.4	79.8	87.9	91.4	91.4
97.5°	111.0	120.3	129.5	134.1	134.1
100°	161.9	166.5	176.9	179.2	179.2
102.5°	215.1	216.3	225.5	229.0	230.1
105°	269.5	270.6	275.2	278.7	282.2
107.5°	326.1	327.3	328.4	333.1	331.9
110°	383.9	386.3	385.1	382.8	386.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	444.1	444.1	441.8	441.8	441.8
115°	504.2	504.2	501.9	500.7	499.6
117.5°	560.9	560.9	559.7	556.3	552.8
120°	617.5	622.2	618.7	612.9	615.2
122.5°	676.5	677.7	676.5	673.1	667.3
125°	734.3	734.3	733.2	730.9	728.6
127.5°	786.4	789.9	787.5	785.2	784.1
130°	841.9	845.4	845.4	843.0	838.4
132.5°	898.6	900.9	899.7	897.4	896.2
135°	947.1	954.1	954.1	951.8	948.3
137.5°	1001.5	1005.0	1007.3	1003.8	1005.0
140°	1055.8	1058.1	1058.1	1057.0	1055.8
142.5°	1105.6	1107.9	1106.7	1106.7	1106.7
145°	1150.7	1155.3	1156.4	1155.3	1151.8
147.5°	1196.9	1202.7	1201.5	1200.4	1199.2
150°	1238.6	1243.2	1243.2	1243.2	1242.0
152.5°	1277.9	1280.2	1281.3	1284.8	1281.3
155°	1318.3	1318.3	1317.2	1321.8	1317.2
157.5°	1353.0	1350.7	1350.7	1354.2	1350.7
160°	1383.1	1382.0	1380.8	1384.3	1378.5
162.5°	1410.9	1407.4	1406.2	1413.2	1407.4
165°	1435.1	1431.7	1429.4	1436.3	1431.7
167.5°	1454.8	1450.2	1450.2	1457.1	1450.2
170°	1471.0	1465.2	1466.4	1473.3	1465.2
172.5°	1482.6	1477.9	1477.9	1486.0	1477.9
175°	1493.0	1487.2	1486.0	1494.1	1486.0
177.5°	1497.6	1491.8	1491.8	1499.9	1490.7
180°	1495.3	1495.3	1495.3	1495.3	1495.3

(END OF REPORT)