

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: P334873

Luminaire Tested: **S124IW-S1340U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334873
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-S1340U840-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1340 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4702.2 lumens
Efficiency: N/A
Efficacy: 183.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

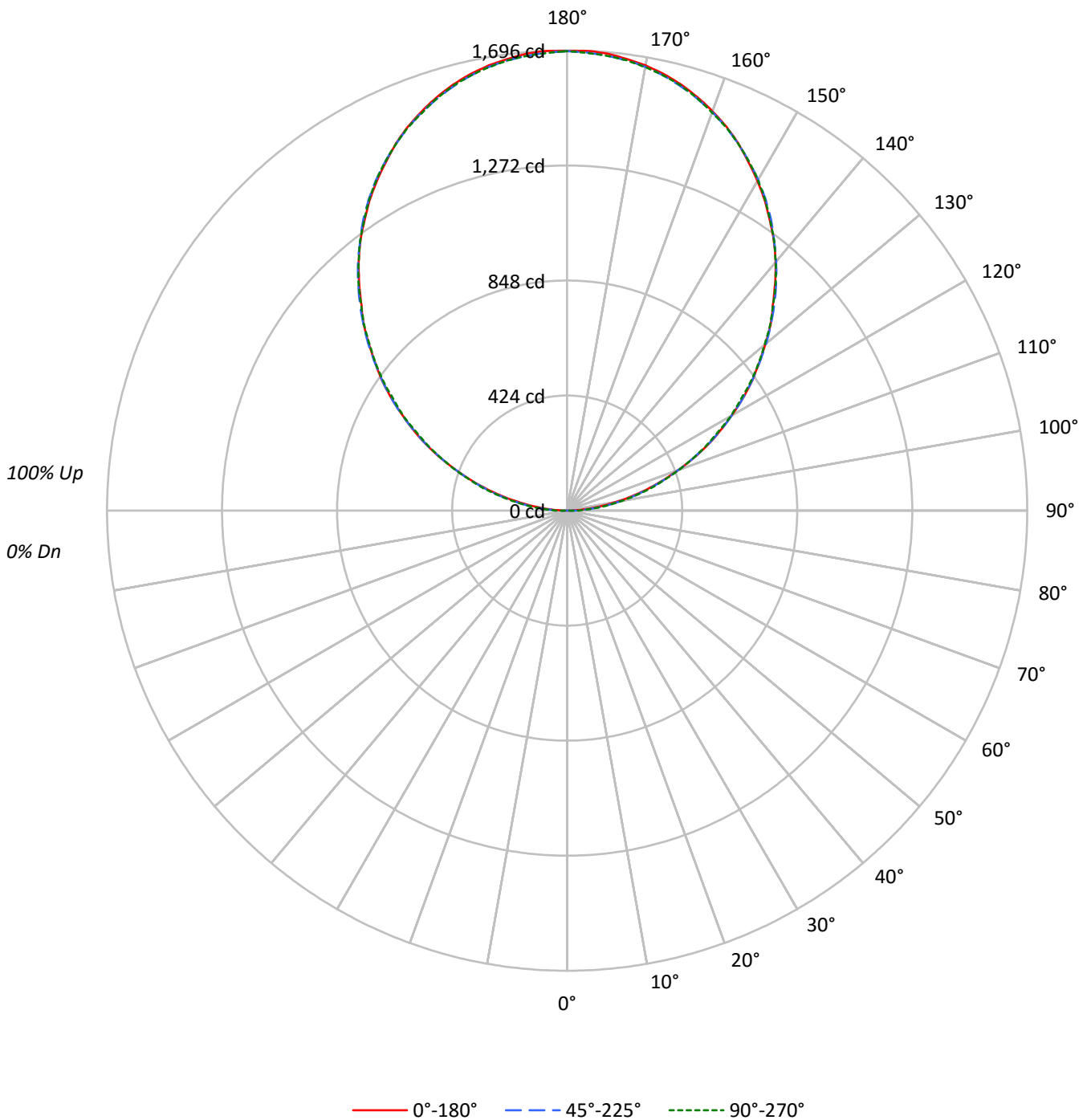
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	3.6	0.1
90°-100°	110.4	2.3
100°-110°	330.6	7.0
110°-120°	561.6	11.9
120°-130°	740.7	15.8
130°-140°	832.0	17.7
140°-150°	817.7	17.4
150°-160°	687.7	14.6
160°-170°	457.6	9.7
170°-180°	160.2	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°	1002.7	21.3
90°-150°	3393.0	72.2
90°-180°	4699.0	99.9
0°-180°	4702.2	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	37	39	6
95°	79	90	100	104	104	85
105°	305	306	312	316	320	324
115°	571	571	568	567	566	563
125°	832	832	830	828	825	741
135°	1073	1080	1080	1078	1074	830
145°	1303	1308	1310	1308	1304	816
155°	1493	1493	1492	1497	1492	687
165°	1625	1621	1619	1627	1621	458
175°	1691	1684	1683	1692	1683	161
180°	1693	1693	1693	1693	1693	



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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°	3.9	18.3	28.8	36.7	39.3
92.5°	34.1	51.1	57.6	61.6	62.9
95°	78.6	90.4	99.5	103.5	103.5
97.5°	125.7	136.2	146.7	151.9	151.9
100°	183.4	188.6	200.4	203.0	203.0
102.5°	243.6	244.9	255.4	259.3	260.6
105°	305.2	306.5	311.7	315.6	319.6
107.5°	369.3	370.6	371.9	377.2	375.9
110°	434.8	437.4	436.1	433.5	437.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	502.9	502.9	500.3	500.3	500.3
115°	571.0	571.0	568.4	567.1	565.8
117.5°	635.2	635.2	633.9	630.0	626.0
120°	699.4	704.6	700.7	694.1	696.7
122.5°	766.2	767.5	766.2	762.2	755.7
125°	831.6	831.6	830.3	827.7	825.1
127.5°	890.6	894.5	891.9	889.3	888.0
130°	953.4	957.4	957.4	954.8	949.5
132.5°	1017.6	1020.2	1018.9	1016.3	1015.0
135°	1072.6	1080.5	1080.5	1077.9	1073.9
137.5°	1134.2	1138.1	1140.7	1136.8	1138.1
140°	1195.7	1198.4	1198.4	1197.0	1195.7
142.5°	1252.1	1254.7	1253.4	1253.4	1253.4
145°	1303.1	1308.4	1309.7	1308.4	1304.4
147.5°	1355.5	1362.1	1360.8	1359.4	1358.1
150°	1402.7	1407.9	1407.9	1407.9	1406.6
152.5°	1447.2	1449.8	1451.1	1455.1	1451.1
155°	1493.0	1493.0	1491.7	1497.0	1491.7
157.5°	1532.3	1529.7	1529.7	1533.6	1529.7
160°	1566.4	1565.1	1563.8	1567.7	1561.1
162.5°	1597.8	1593.9	1592.6	1600.4	1593.9
165°	1625.3	1621.4	1618.8	1626.6	1621.4
167.5°	1647.6	1642.3	1642.3	1650.2	1642.3
170°	1665.9	1659.4	1660.7	1668.5	1659.4
172.5°	1679.0	1673.8	1673.8	1682.9	1673.8
175°	1690.8	1684.2	1682.9	1692.1	1682.9
177.5°	1696.0	1689.5	1689.5	1698.7	1688.2
180°	1693.4	1693.4	1693.4	1693.4	1693.4

(END OF REPORT)