

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: P334863

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334863
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-S1340U830-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 4388.7 lumens
Efficiency: N/A
Efficacy: 170.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

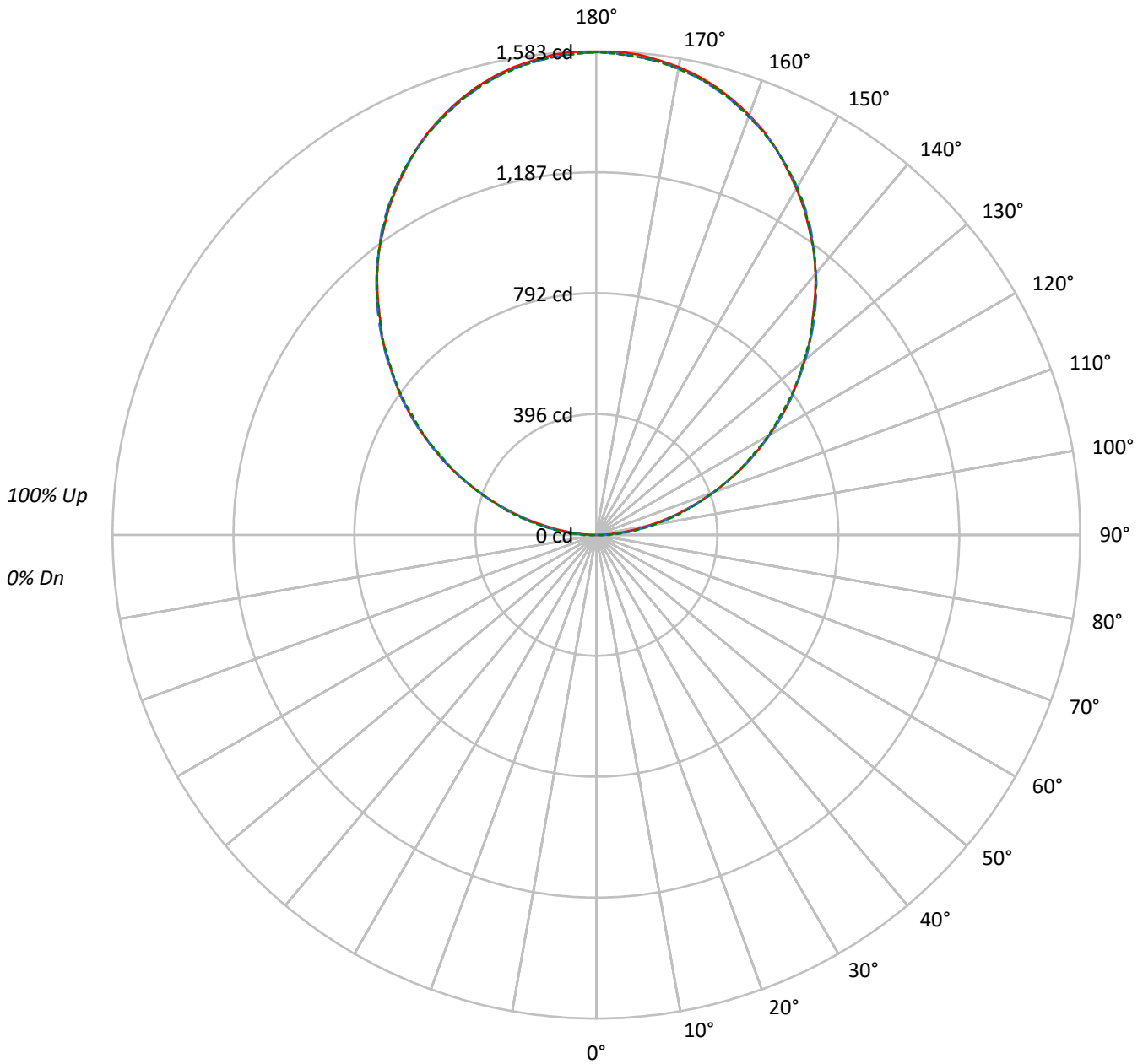
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.4	0.1
90°-100°	103.0	2.3
100°-110°	308.6	7.0
110°-120°	524.2	11.9
120°-130°	691.3	15.8
130°-140°	776.5	17.7
140°-150°	763.2	17.4
150°-160°	641.9	14.6
160°-170°	427.1	9.7
170°-180°	149.6	3.4
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°	935.8	21.3
90°-150°	3166.8	72.2
90°-180°	4385.0	99.9
0°-180°	4388.7	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	5
95°	73	84	93	97	97	79
105°	285	286	291	295	298	302
115°	533	533	530	529	528	526
125°	776	776	775	772	770	692
135°	1001	1008	1008	1006	1002	775
145°	1216	1221	1222	1221	1218	761
155°	1394	1394	1392	1397	1392	641
165°	1517	1513	1511	1518	1513	428
175°	1578	1572	1571	1579	1571	150
180°	1580	1580	1580	1580	1580	



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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°	31.8	47.7	53.8	57.5	58.7
95°	73.3	84.3	92.9	96.6	96.6
97.5°	117.3	127.1	136.9	141.8	141.8
100°	171.1	176.0	187.0	189.5	189.5
102.5°	227.4	228.6	238.4	242.0	243.3
105°	284.8	286.0	290.9	294.6	298.3
107.5°	344.7	345.9	347.2	352.0	350.8
110°	405.8	408.3	407.0	404.6	408.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	469.4	469.4	466.9	466.9	466.9
115°	533.0	533.0	530.5	529.3	528.1
117.5°	592.8	592.8	591.6	588.0	584.3
120°	652.7	657.6	654.0	647.9	650.3
122.5°	715.1	716.3	715.1	711.4	705.3
125°	776.2	776.2	775.0	772.5	770.1
127.5°	831.2	834.9	832.4	830.0	828.8
130°	889.9	893.6	893.6	891.1	886.2
132.5°	949.8	952.2	951.0	948.6	947.3
135°	1001.1	1008.5	1008.5	1006.0	1002.3
137.5°	1058.6	1062.2	1064.7	1061.0	1062.2
140°	1116.0	1118.5	1118.5	1117.2	1116.0
142.5°	1168.6	1171.0	1169.8	1169.8	1169.8
145°	1216.3	1221.1	1222.4	1221.1	1217.5
147.5°	1265.2	1271.3	1270.0	1268.8	1267.6
150°	1309.2	1314.0	1314.0	1314.0	1312.8
152.5°	1350.7	1353.2	1354.4	1358.1	1354.4
155°	1393.5	1393.5	1392.3	1397.2	1392.3
157.5°	1430.2	1427.7	1427.7	1431.4	1427.7
160°	1462.0	1460.7	1459.5	1463.2	1457.1
162.5°	1491.3	1487.6	1486.4	1493.7	1487.6
165°	1517.0	1513.3	1510.8	1518.2	1513.3
167.5°	1537.7	1532.8	1532.8	1540.2	1532.8
170°	1554.9	1548.7	1550.0	1557.3	1548.7
172.5°	1567.1	1562.2	1562.2	1570.7	1562.2
175°	1578.1	1572.0	1570.7	1579.3	1570.7
177.5°	1583.0	1576.9	1576.9	1585.4	1575.6
180°	1580.5	1580.5	1580.5	1580.5	1580.5

(END OF REPORT)