

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: P334862

Luminaire Tested: **S124IW-S1050U830-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334862
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-S1050U830-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1050 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3428.2 lumens
Efficiency: N/A
Efficacy: 174.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

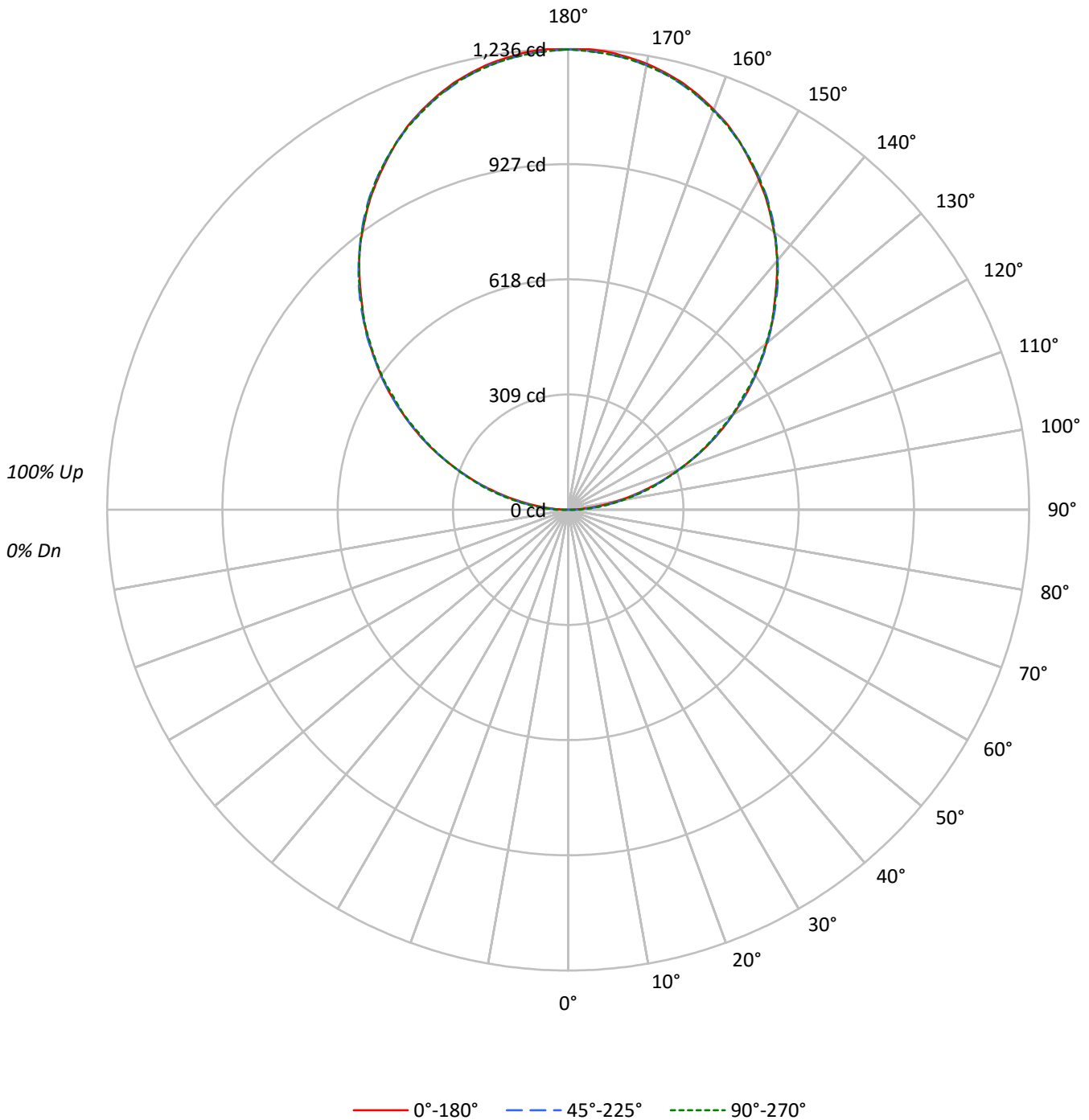
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334862

CATALOG NUMBER: S124IW-S1050U830-4F0-1E-UDD-1

Luminous Intensity Polar Plot





TEST NUMBER: P334862

CATALOG NUMBER: S124IW-S1050U830-4F0-1E-UDD-1

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



TEST NUMBER: P334862

CATALOG NUMBER: S124IW-S1050U830-4F0-1E-UDD-1

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°	2.6	0.1
90°-100°	80.5	2.3
100°-110°	241.1	7.0
110°-120°	409.5	11.9
120°-130°	540.0	15.8
130°-140°	606.6	17.7
140°-150°	596.2	17.4
150°-160°	501.4	14.6
160°-170°	333.6	9.7
170°-180°	116.8	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.6	0.1
90°-120°	731.0	21.3
90°-150°	2473.7	72.2
90°-180°	3426.0	99.9
0°-180°	3428.2	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°	3	13	21	27	29	4
95°	57	66	73	75	75	62
105°	222	223	227	230	233	236
115°	416	416	414	413	412	411
125°	606	606	605	604	602	540
135°	782	788	788	786	783	605
145°	950	954	955	954	951	595
155°	1088	1088	1088	1091	1088	501
165°	1185	1182	1180	1186	1182	334
175°	1233	1228	1227	1234	1227	117
180°	1235	1235	1235	1235	1235	



TEST NUMBER: P334862

CATALOG NUMBER: S124IW-S1050U830-4F0-1E-UDD-1

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°	2.9	13.4	21.0	26.7	28.6
92.5°	24.8	37.2	42.0	44.9	45.8
95°	57.3	65.9	72.6	75.4	75.4
97.5°	91.7	99.3	106.9	110.8	110.8
100°	133.7	137.5	146.1	148.0	148.0
102.5°	177.6	178.6	186.2	189.1	190.0
105°	222.5	223.4	227.3	230.1	233.0
107.5°	269.3	270.2	271.2	275.0	274.0
110°	317.0	318.9	318.0	316.1	318.9



TEST NUMBER: P334862

CATALOG NUMBER: S124IW-S1050U830-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	366.7	366.7	364.7	<i>364.7</i>	364.7
115°	416.3	416.3	414.4	<i>413.4</i>	412.5
117.5°	463.1	463.1	462.1	<i>459.3</i>	456.4
120°	509.9	513.7	510.8	<i>506.1</i>	508.0
122.5°	558.6	559.5	558.6	<i>555.7</i>	550.9
125°	606.3	606.3	605.4	<i>603.5</i>	601.5
127.5°	649.3	652.2	650.2	<i>648.3</i>	647.4
130°	695.1	698.0	698.0	<i>696.1</i>	692.3
132.5°	741.9	743.8	742.9	<i>741.0</i>	740.0
135°	782.0	787.7	787.7	<i>785.8</i>	783.0
137.5°	826.9	829.8	831.7	<i>828.8</i>	829.8
140°	871.8	873.7	873.7	<i>872.7</i>	871.8
142.5°	912.8	914.7	913.8	<i>913.8</i>	913.8
145°	950.1	953.9	954.8	<i>953.9</i>	951.0
147.5°	988.3	993.0	992.1	<i>991.1</i>	990.2
150°	1022.6	1026.4	1026.4	<i>1026.4</i>	1025.5
152.5°	1055.1	1057.0	1058.0	<i>1060.8</i>	1058.0
155°	1088.5	1088.5	1087.6	<i>1091.4</i>	1087.6
157.5°	1117.2	1115.2	1115.2	<i>1118.1</i>	1115.2
160°	1142.0	1141.0	1140.1	<i>1142.9</i>	1138.2
162.5°	1164.9	1162.0	1161.1	<i>1166.8</i>	1162.0
165°	1185.0	1182.1	1180.2	<i>1185.9</i>	1182.1
167.5°	1201.2	1197.4	1197.4	<i>1203.1</i>	1197.4
170°	1214.6	1209.8	1210.7	<i>1216.5</i>	1209.8
172.5°	1224.1	1220.3	1220.3	<i>1227.0</i>	1220.3
175°	1232.7	1227.9	1227.0	<i>1233.6</i>	1227.0
177.5°	<i>1236.5</i>	<i>1231.7</i>	<i>1231.7</i>	<i>1238.4</i>	<i>1230.8</i>
180°	1234.6	1234.6	1234.6	<i>1234.6</i>	1234.6

(END OF REPORT)