

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: P334876

Luminaire Tested: **S124IW-S770U927-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334876
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-S770U927-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 770 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2110.9 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

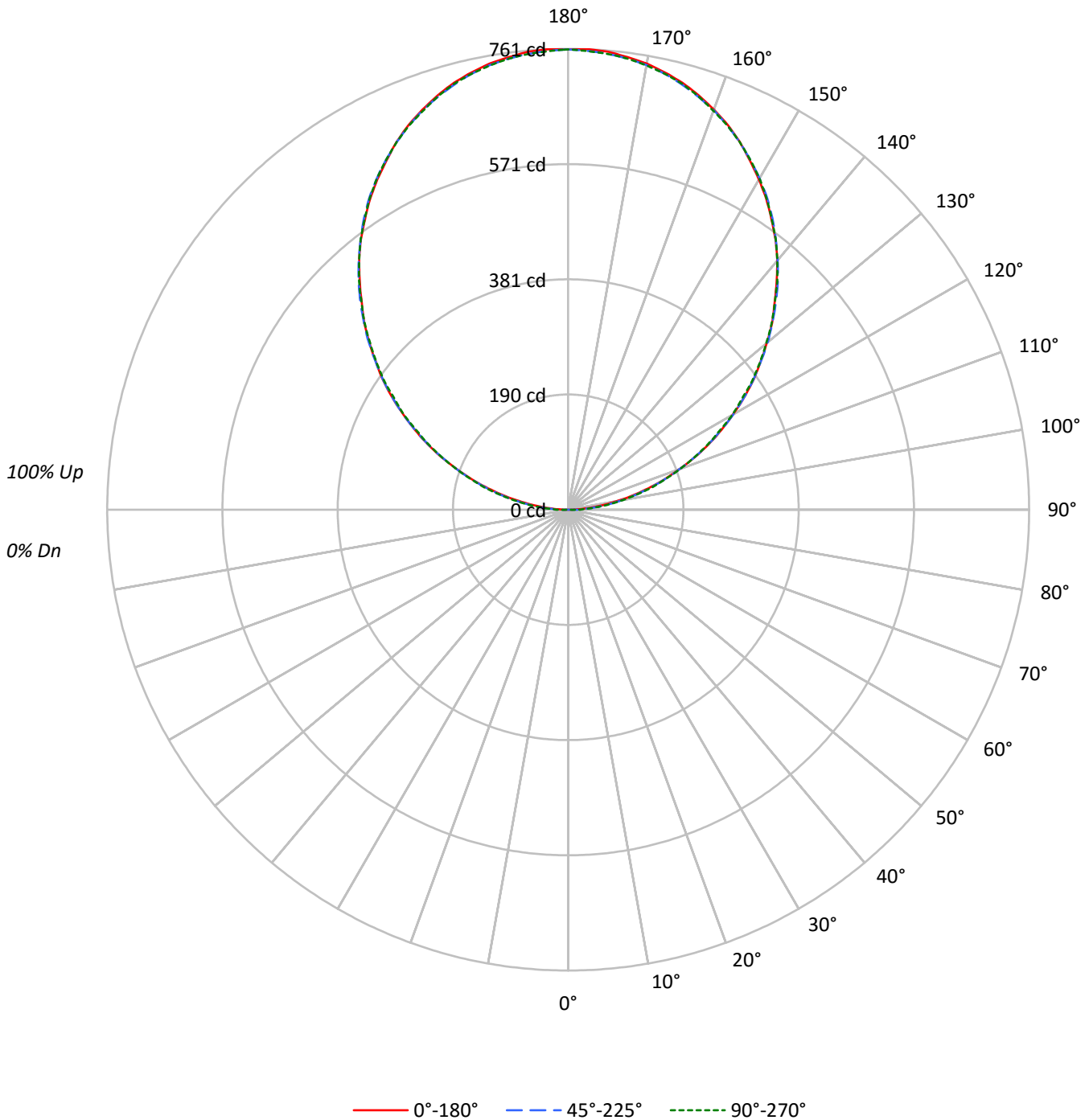
Input Watts (W): 14
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334876

CATALOG NUMBER: S124IW-S770U927-4F0-1E-UDD-1

Luminous Intensity Polar Plot





TEST NUMBER: P334876

CATALOG NUMBER: S124IW-S770U927-4F0-1E-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: P334876

CATALOG NUMBER: S124IW-S770U927-4F0-1E-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°	1.6	0.1
90°-100°	49.5	2.3
100°-110°	148.4	7.0
110°-120°	252.1	11.9
120°-130°	332.5	15.8
130°-140°	373.5	17.7
140°-150°	367.1	17.4
150°-160°	308.7	14.6
160°-170°	205.4	9.7
170°-180°	71.9	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.1
90°-120°	450.1	21.3
90°-150°	1523.2	72.2
90°-180°	2109.0	99.9
0°-180°	2110.9	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°	2	8	13	16	18	3
95°	35	41	45	46	46	38
105°	137	138	140	142	144	145
115°	256	256	255	255	254	253
125°	373	373	373	372	370	333
135°	482	485	485	484	482	373
145°	585	587	588	587	586	366
155°	670	670	670	672	670	308
165°	730	728	727	730	728	206
175°	759	756	756	760	756	72
180°	760	760	760	760	760	



TEST NUMBER: P334876

CATALOG NUMBER: S124IW-S770U927-4F0-1E-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°	1.8	8.2	12.9	16.5	17.6
92.5°	15.3	22.9	25.9	27.6	28.2
95°	35.3	40.6	44.7	46.4	46.4
97.5°	56.4	61.1	65.9	68.2	68.2
100°	82.3	84.7	90.0	91.1	91.1
102.5°	109.4	109.9	114.6	116.4	117.0
105°	137.0	137.6	139.9	141.7	143.5
107.5°	165.8	166.4	167.0	169.3	168.7
110°	195.2	196.4	195.8	194.6	196.4



TEST NUMBER: P334876

CATALOG NUMBER: S124IW-S770U927-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.8	225.8	224.6	224.6	224.6
115°	256.3	256.3	255.2	254.6	254.0
117.5°	285.2	285.2	284.6	282.8	281.0
120°	314.0	316.3	314.6	311.6	312.8
122.5°	343.9	344.5	343.9	342.2	339.2
125°	373.3	373.3	372.8	371.6	370.4
127.5°	399.8	401.6	400.4	399.2	398.6
130°	428.0	429.8	429.8	428.6	426.3
132.5°	456.8	458.0	457.4	456.2	455.7
135°	481.5	485.1	485.1	483.9	482.1
137.5°	509.2	510.9	512.1	510.3	510.9
140°	536.8	538.0	538.0	537.4	536.8
142.5°	562.1	563.3	562.7	562.7	562.7
145°	585.0	587.4	587.9	587.4	585.6
147.5°	608.5	611.5	610.9	610.3	609.7
150°	629.7	632.0	632.0	632.0	631.5
152.5°	649.7	650.9	651.4	653.2	651.4
155°	670.3	670.3	669.7	672.0	669.7
157.5°	687.9	686.7	686.7	688.5	686.7
160°	703.2	702.6	702.0	703.8	700.8
162.5°	717.3	715.5	714.9	718.5	715.5
165°	729.6	727.9	726.7	730.2	727.9
167.5°	739.6	737.3	737.3	740.8	737.3
170°	747.9	744.9	745.5	749.0	744.9
172.5°	753.7	751.4	751.4	755.5	751.4
175°	759.0	756.1	755.5	759.6	755.5
177.5°	761.4	758.5	758.5	762.6	757.9
180°	760.2	760.2	760.2	760.2	760.2

(END OF REPORT)