

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: P334956

Luminaire Tested: **S124IW-S770U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IW-S770U935-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 770 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

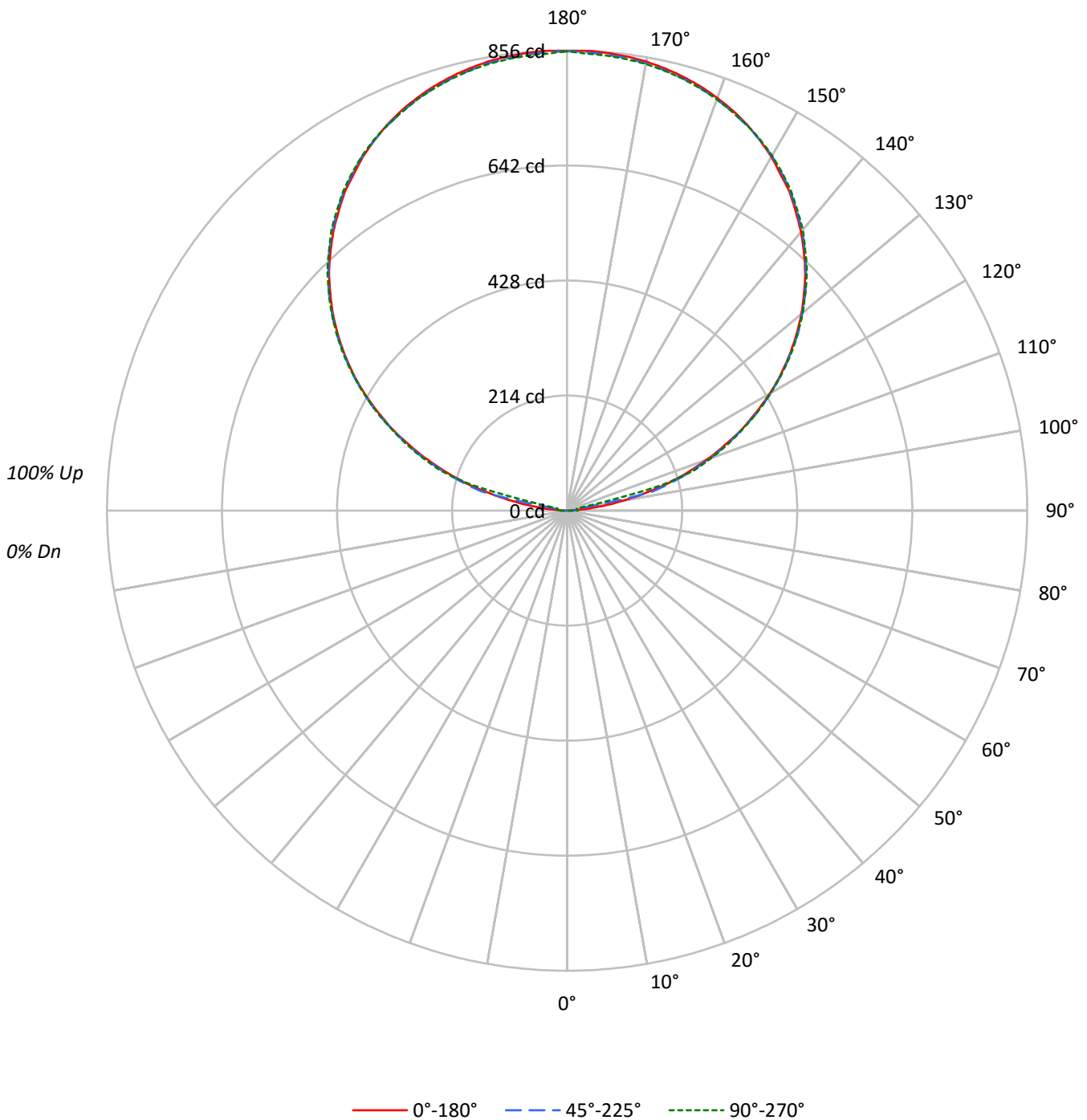
Lumens per Lamp: N/A
Luminaire Lumens: 2645.8 lumens
Efficiency: N/A
Efficacy: 189.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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: P334956
CATALOG NUMBER: S124IW-S770U935-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334956

CATALOG NUMBER: S124IW-S770U935-4F0-1E-UDD

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: P334956

CATALOG NUMBER: S124IW-S770U935-4F0-1E-UDD

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°	1.8	0.1
90°-100°	28.4	1.1
100°-110°	186.8	7.1
110°-120°	356.7	13.5
120°-130°	452.8	17.1
130°-140°	484.4	18.3
140°-150°	453.0	17.1
150°-160°	365.3	13.8
160°-170°	235.6	8.9
170°-180°	81.2	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.8	0.1
90°-120°	571.9	21.6
90°-150°	1962.0	74.2
90°-180°	2644.0	99.9
0°-180°	2645.8	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	9	14	18	19	2
95°	35	13	14	18	18	43
105°	192	196	199	205	182	201
115°	359	361	360	362	362	354
125°	505	508	506	508	509	451
135°	626	626	628	630	631	483
145°	722	724	724	725	726	451
155°	792	792	791	793	791	365
165°	835	832	832	837	832	236
175°	854	851	851	857	849	81
180°	854	854	854	854	854	



TEST NUMBER: P334956

CATALOG NUMBER: S124IW-S770U935-4F0-1E-UDD

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°	1.9	8.9	14.1	17.9	19.2
92.5°	9.6	8.3	13.4	17.3	17.3
95°	35.2	13.4	14.1	17.9	18.5
97.5°	67.1	81.2	14.1	17.3	17.9
100°	104.8	116.3	28.1	17.3	17.9
102.5°	147.0	154.7	162.3	18.5	18.5
105°	192.4	196.2	199.4	205.2	182.1
107.5°	233.9	235.8	240.3	243.5	246.1
110°	276.1	278.0	281.8	283.1	285.0



TEST NUMBER: P334956

CATALOG NUMBER: S124IW-S770U935-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	317.0	320.8	322.1	321.5	324.0
115°	359.2	361.1	360.5	361.7	361.7
117.5°	396.9	399.4	401.4	400.7	400.7
120°	435.2	437.8	437.2	438.4	437.2
122.5°	471.0	472.3	473.6	474.2	472.9
125°	504.9	507.5	506.2	508.1	508.7
127.5°	537.5	538.1	541.3	540.7	540.0
130°	568.8	569.4	571.4	572.0	572.0
132.5°	597.6	598.8	601.4	602.0	601.4
135°	626.3	625.7	628.2	629.5	630.8
137.5°	651.9	651.9	655.1	656.4	655.7
140°	676.8	678.1	679.4	681.3	681.9
142.5°	699.2	701.7	702.4	703.7	703.7
145°	722.2	724.1	724.1	724.7	726.0
147.5°	740.1	743.9	743.3	743.9	744.6
150°	759.9	762.5	761.8	761.8	762.5
152.5°	776.5	778.4	777.2	778.4	777.8
155°	791.9	792.5	790.6	793.1	791.2
157.5°	805.3	805.3	802.7	805.9	802.7
160°	816.8	814.9	814.2	818.1	814.2
162.5°	827.0	824.5	823.8	827.6	823.2
165°	835.3	832.1	832.1	837.2	831.5
167.5°	842.3	839.1	838.5	844.3	837.9
170°	848.1	844.3	844.9	850.0	843.6
172.5°	851.9	848.1	848.7	853.8	846.8
175°	854.5	850.7	851.3	857.0	849.4
177.5°	856.4	851.9	853.2	858.3	850.7
180°	854.5	854.5	854.5	854.5	854.5

(END OF REPORT)