

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: P334886

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334886
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-S770U935-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 2294.3 lumens
Efficiency: N/A
Efficacy: 163.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

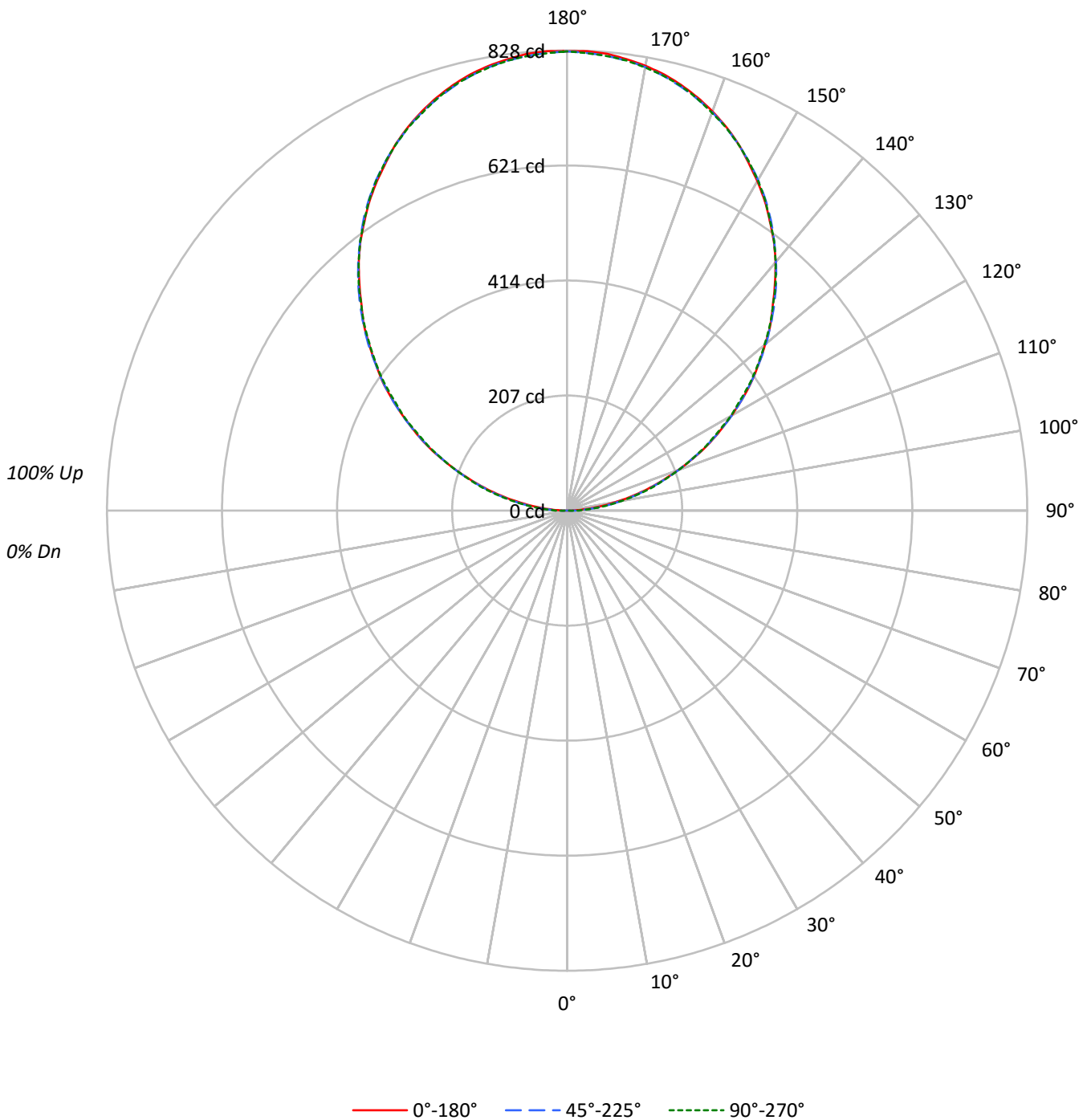
Input Watts (W): 14
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334886

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

Luminous Intensity Polar Plot





TEST NUMBER: P334886

CATALOG NUMBER: S124IW-S770U935-4F0-1E-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: P334886

CATALOG NUMBER: S124IW-S770U935-4F0-1E-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°	1.8	0.1
90°-100°	53.9	2.3
100°-110°	161.3	7.0
110°-120°	274.0	11.9
120°-130°	361.4	15.8
130°-140°	405.9	17.7
140°-150°	399.0	17.4
150°-160°	335.6	14.6
160°-170°	223.3	9.7
170°-180°	78.2	3.4
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°	489.2	21.3
90°-150°	1655.5	72.2
90°-180°	2293.0	99.9
0°-180°	2294.3	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	3
95°	38	44	49	50	50	42
105°	149	150	152	154	156	158
115°	279	279	277	277	276	275
125°	406	406	405	404	403	362
135°	523	527	527	526	524	405
145°	636	638	639	638	636	398
155°	728	728	728	730	728	335
165°	793	791	790	794	791	224
175°	825	822	821	826	821	78
180°	826	826	826	826	826	



TEST NUMBER: P334886

CATALOG NUMBER: S124IW-S770U935-4F0-1E-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°	1.9	8.9	14.1	17.9	19.2
92.5°	16.6	24.9	28.1	30.0	30.7
95°	38.3	44.1	48.6	50.5	50.5
97.5°	61.3	66.5	71.6	74.1	74.1
100°	89.5	92.0	97.8	99.0	99.0
102.5°	118.9	119.5	124.6	126.5	127.2
105°	148.9	149.5	152.1	154.0	155.9
107.5°	180.2	180.8	181.5	184.0	183.4
110°	212.2	213.4	212.8	211.5	213.4



TEST NUMBER: P334886

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	245.4	245.4	244.1	244.1	244.1
115°	278.6	278.6	277.3	276.7	276.1
117.5°	309.9	309.9	309.3	307.4	305.5
120°	341.2	343.8	341.9	338.7	340.0
122.5°	373.8	374.5	373.8	371.9	368.7
125°	405.8	405.8	405.1	403.9	402.6
127.5°	434.5	436.5	435.2	433.9	433.3
130°	465.2	467.1	467.1	465.8	463.3
132.5°	496.5	497.8	497.2	495.9	495.2
135°	523.4	527.2	527.2	525.9	524.0
137.5°	553.4	555.3	556.6	554.7	555.3
140°	583.4	584.7	584.7	584.1	583.4
142.5°	610.9	612.2	611.5	611.5	611.5
145°	635.8	638.4	639.0	638.4	636.5
147.5°	661.4	664.6	663.9	663.3	662.7
150°	684.4	687.0	687.0	687.0	686.3
152.5°	706.1	707.4	708.0	710.0	708.0
155°	728.5	728.5	727.8	730.4	727.8
157.5°	747.7	746.4	746.4	748.3	746.4
160°	764.3	763.6	763.0	764.9	761.7
162.5°	779.6	777.7	777.1	780.9	777.7
165°	793.0	791.1	789.8	793.7	791.1
167.5°	803.9	801.3	801.3	805.2	801.3
170°	812.8	809.6	810.3	814.1	809.6
172.5°	819.2	816.7	816.7	821.1	816.7
175°	825.0	821.8	821.1	825.6	821.1
177.5°	827.5	824.3	824.3	828.8	823.7
180°	826.3	826.3	826.3	826.3	826.3

(END OF REPORT)