

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: P334936

Luminaire Tested: **S124IW-S770U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334936
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-S770U835-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 770 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

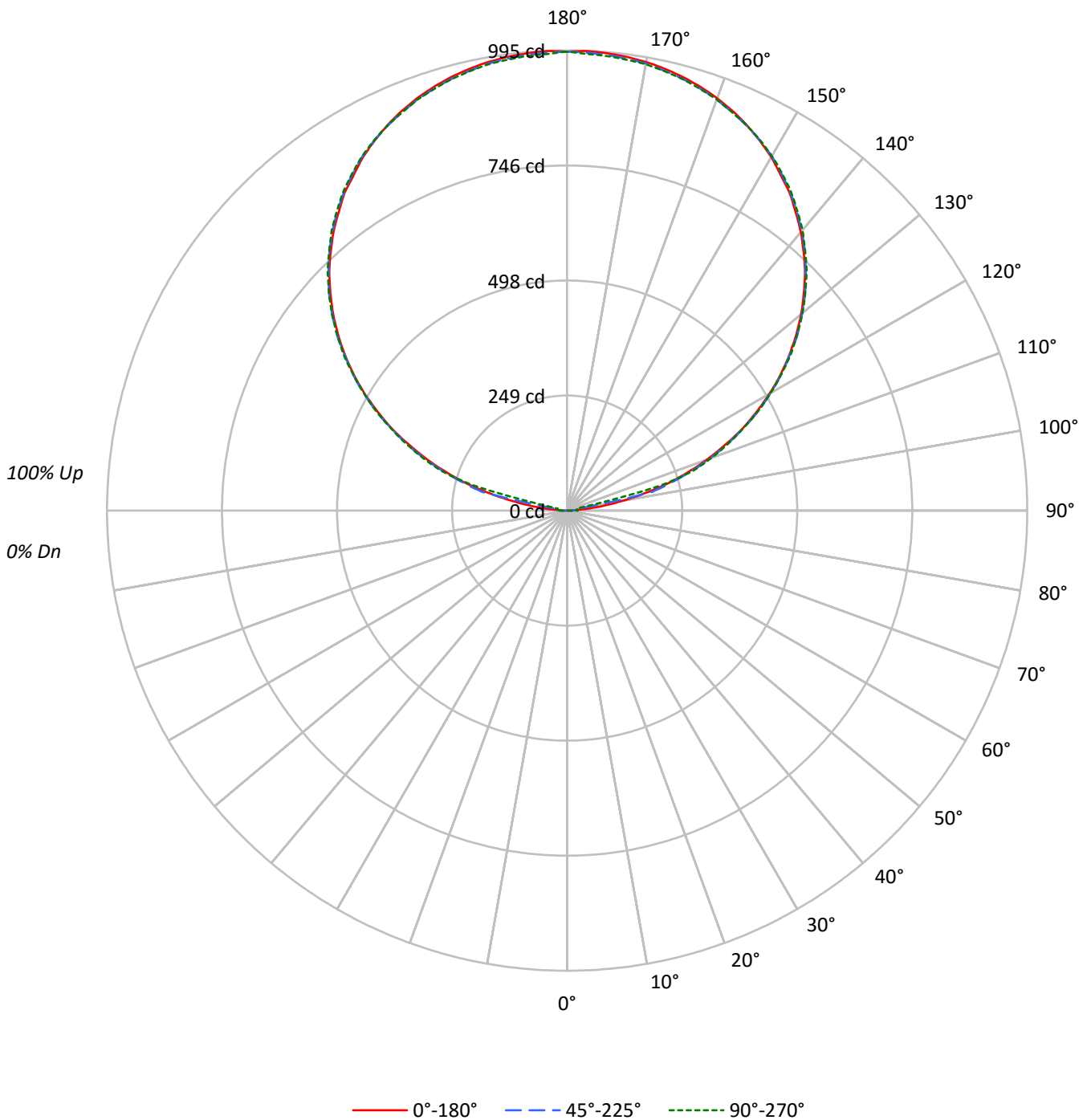
Lumens per Lamp: N/A
Luminaire Lumens: 3073.0 lumens
Efficiency: N/A
Efficacy: 219.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 14
Input Voltage (V): 120
Input Current (A_{in}): 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





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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°	2.0	0.1
90°-100°	32.9	1.1
100°-110°	216.9	7.1
110°-120°	414.3	13.5
120°-130°	525.9	17.1
130°-140°	562.6	18.3
140°-150°	526.1	17.1
150°-160°	424.2	13.8
160°-170°	273.6	8.9
170°-180°	94.3	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.1
90°-120°	664.1	21.6
90°-150°	2278.8	74.2
90°-180°	3071.0	99.9
0°-180°	3073.0	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	10	16	21	22	2
95°	41	16	16	21	22	50
105°	223	228	232	238	212	234
115°	417	419	419	420	420	411
125°	586	589	588	590	591	524
135°	727	727	730	731	733	561
145°	839	841	841	842	843	524
155°	920	920	918	921	919	424
165°	970	966	966	972	966	274
175°	992	988	989	995	986	94
180°	992	992	992	992	992	



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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°	2.2	10.4	16.3	20.8	22.3
92.5°	11.1	9.6	15.6	20.0	20.0
95°	40.8	15.6	16.3	20.8	21.5
97.5°	77.9	94.3	16.3	20.0	20.8
100°	121.7	135.1	32.7	20.0	20.8
102.5°	170.7	179.6	188.5	21.5	21.5
105°	223.4	227.9	231.6	238.3	211.6
107.5°	271.7	273.9	279.1	282.8	285.8
110°	320.7	322.9	327.3	328.8	331.1



TEST NUMBER: P334936

CATALOG NUMBER: S124IW-S770U835-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	368.2	372.6	374.1	373.4	376.3
115°	417.2	419.4	418.6	420.1	420.1
117.5°	461.0	463.9	466.2	465.4	465.4
120°	505.5	508.5	507.7	509.2	507.7
122.5°	547.1	548.5	550.0	550.8	549.3
125°	586.4	589.4	587.9	590.1	590.9
127.5°	624.3	625.0	628.7	628.0	627.2
130°	660.6	661.4	663.6	664.3	664.3
132.5°	694.0	695.5	698.5	699.2	698.5
135°	727.4	726.7	729.7	731.2	732.6
137.5°	757.1	757.1	760.8	762.3	761.6
140°	786.1	787.6	789.1	791.3	792.0
142.5°	812.1	815.0	815.8	817.3	817.3
145°	838.8	841.0	841.0	841.8	843.2
147.5°	859.6	864.0	863.3	864.0	864.8
150°	882.6	885.5	884.8	884.8	885.5
152.5°	901.9	904.1	902.6	904.1	903.4
155°	919.7	920.4	918.2	921.2	919.0
157.5°	935.3	935.3	932.3	936.0	932.3
160°	948.6	946.4	945.7	950.1	945.7
162.5°	960.5	957.5	956.8	961.3	956.1
165°	970.2	966.5	966.5	972.4	965.7
167.5°	978.3	974.6	973.9	980.6	973.1
170°	985.0	980.6	981.3	987.2	979.8
172.5°	989.5	985.0	985.8	991.7	983.5
175°	992.4	988.0	988.7	995.4	986.5
177.5°	994.7	989.5	991.0	996.9	988.0
180°	992.4	992.4	992.4	992.4	992.4

(END OF REPORT)