

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: P334931

Luminaire Tested: **S124IW-S770U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334931
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-S770U830-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 770 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

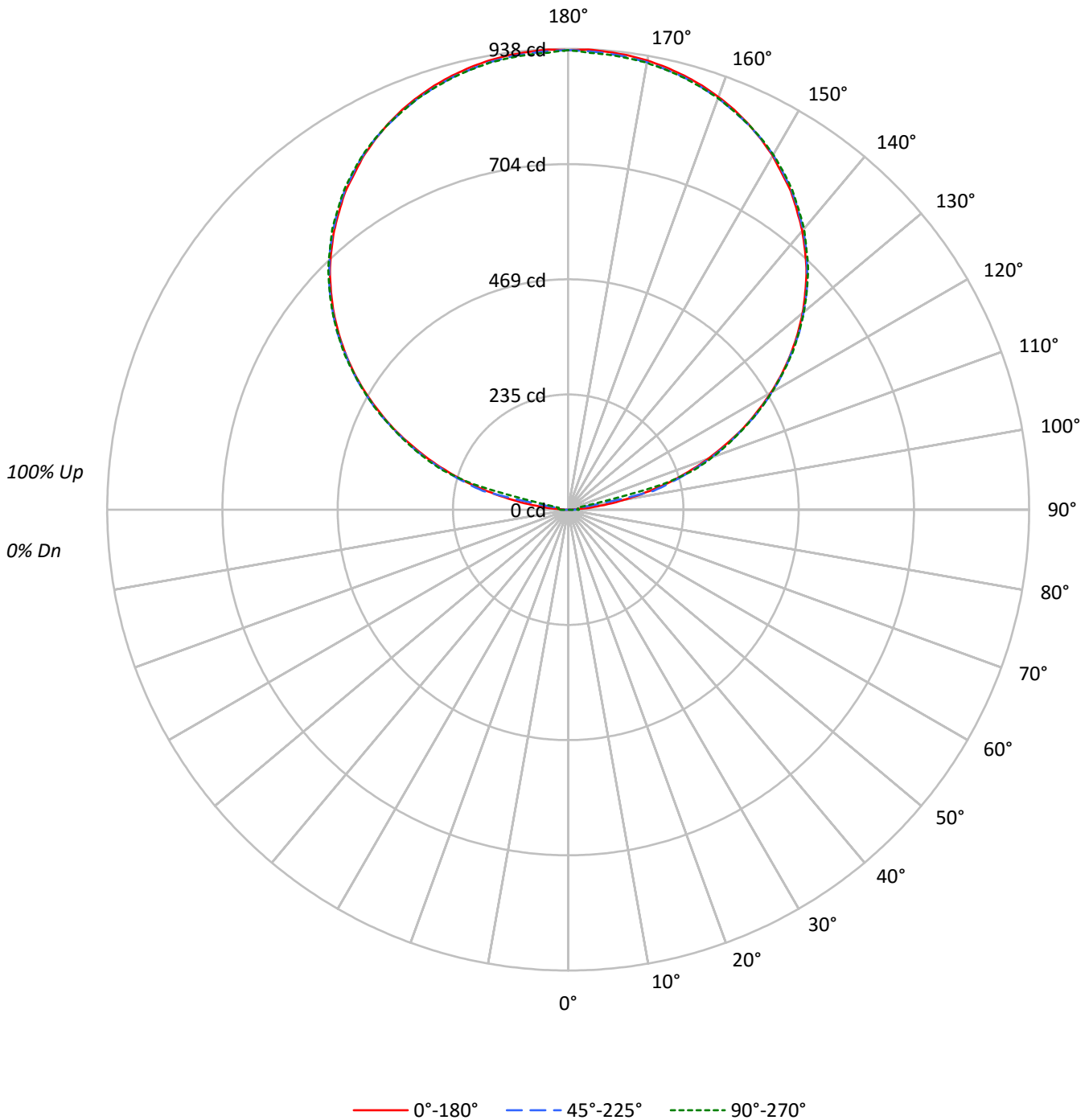
Lumens per Lamp: N/A
Luminaire Lumens: 2896.4 lumens
Efficiency: N/A
Efficacy: 206.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 14
Input Voltage (V): 120
Input Current (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°	1.9	0.1
90°-100°	31.1	1.1
100°-110°	204.5	7.1
110°-120°	390.5	13.5
120°-130°	495.7	17.1
130°-140°	530.3	18.3
140°-150°	495.9	17.1
150°-160°	399.9	13.8
160°-170°	257.9	8.9
170°-180°	88.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.1
90°-120°	626.0	21.6
90°-150°	2147.9	74.2
90°-180°	2895.0	100.0
0°-180°	2896.4	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	15	20	21	2
95°	38	15	15	20	20	47
105°	211	215	218	225	199	220
115°	393	395	395	396	396	387
125°	553	556	554	556	557	494
135°	686	685	688	689	690	528
145°	791	793	793	793	795	494
155°	867	868	866	868	866	400
165°	914	911	911	916	910	258
175°	935	931	932	938	930	89
180°	935	935	935	935	935	



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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°	2.1	9.8	15.4	19.6	21.0
92.5°	10.5	9.1	14.7	18.9	18.9
95°	38.5	14.7	15.4	19.6	20.3
97.5°	73.5	88.9	15.4	18.9	19.6
100°	114.7	127.3	30.8	18.9	19.6
102.5°	160.9	169.3	177.7	20.3	20.3
105°	210.6	214.8	218.3	224.6	199.4
107.5°	256.1	258.2	263.1	266.6	269.4
110°	302.2	304.3	308.5	309.9	312.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	347.0	351.2	352.6	351.9	354.7
115°	393.2	395.3	394.6	396.0	396.0
117.5°	434.5	437.3	439.4	438.7	438.7
120°	476.5	479.3	478.6	480.0	478.6
122.5°	515.6	517.0	518.4	519.1	517.7
125°	552.7	555.5	554.1	556.2	556.9
127.5°	588.4	589.1	592.6	591.9	591.2
130°	622.7	623.4	625.5	626.2	626.2
132.5°	654.2	655.6	658.4	659.1	658.4
135°	685.6	684.9	687.7	689.1	690.5
137.5°	713.6	713.6	717.1	718.5	717.8
140°	740.9	742.3	743.7	745.8	746.5
142.5°	765.4	768.2	768.9	770.3	770.3
145°	790.6	792.7	792.7	793.4	794.8
147.5°	810.2	814.4	813.7	814.4	815.1
150°	831.9	834.7	834.0	834.0	834.7
152.5°	850.1	852.2	850.8	852.2	851.5
155°	866.8	867.5	865.5	868.2	866.1
157.5°	881.5	881.5	878.7	882.2	878.7
160°	894.1	892.0	891.3	895.5	891.3
162.5°	905.3	902.5	901.8	906.0	901.1
165°	914.4	910.9	910.9	916.5	910.2
167.5°	922.1	918.6	917.9	924.2	917.2
170°	928.4	924.2	924.9	930.5	923.5
172.5°	932.6	928.4	929.1	934.7	927.0
175°	935.4	931.2	931.9	938.2	929.8
177.5°	937.5	932.6	934.0	939.6	931.2
180°	935.4	935.4	935.4	935.4	935.4

(END OF REPORT)