

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: BALLABS TEST NO. 8299.0

Luminaire Tested: **74IC/2BX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 8299.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 74IC/2BX
Description: 4/50W BIAx LAMP 46x8x3" COVE MNT INDIRECT LUMINAIRE
Light Source: -
FT50W/2G11/RS/35
Ballast/Driver: VALMONT ELECTRONIC BALLAST #E250SB120G01

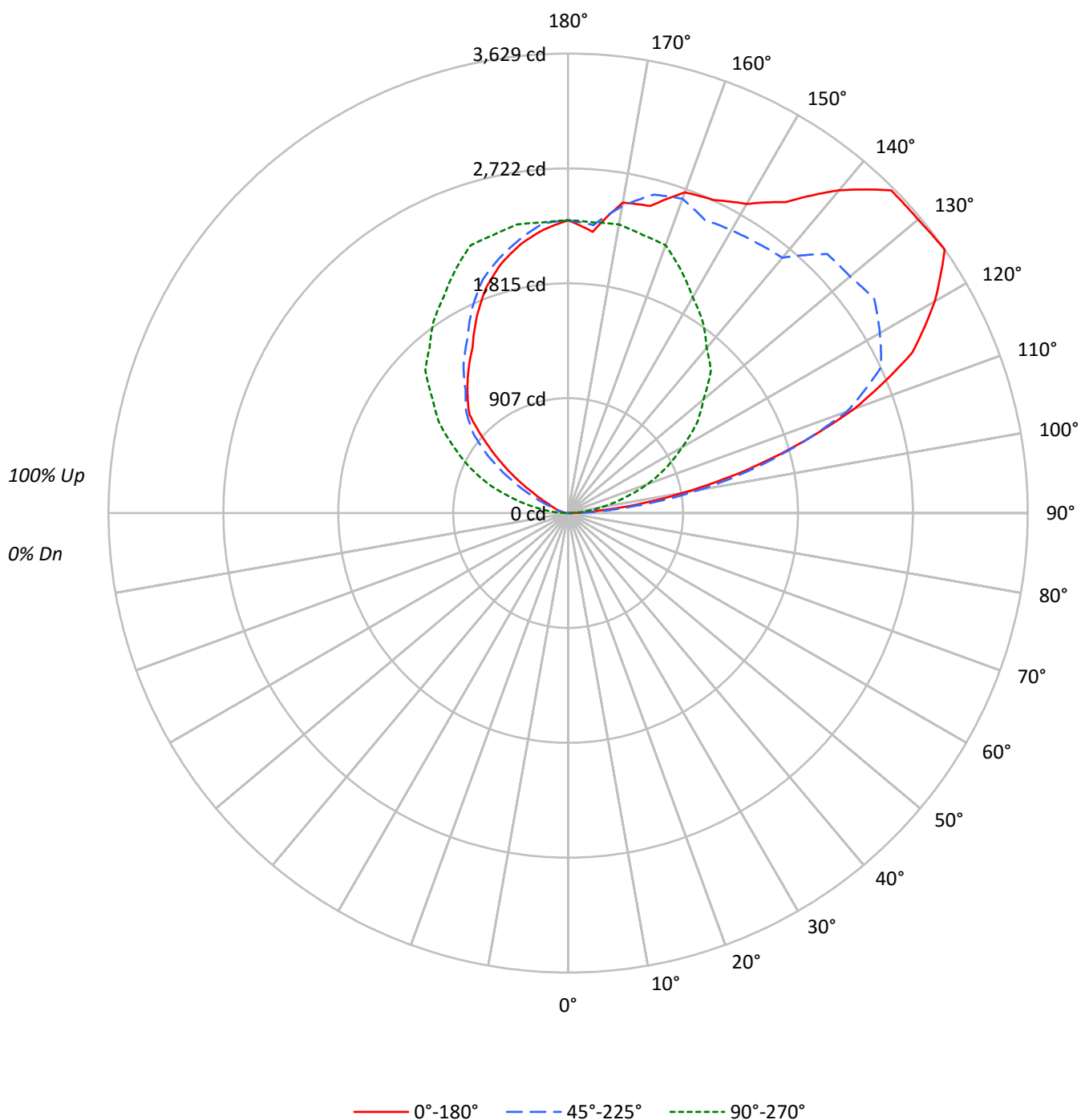
Summary

Lumens per Lamp: 4300 (4 lamps)
Luminaire Lumens: 8585.4 lumens
Efficiency: 49.9%
Efficacy: 47.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 3.83' x L: 0.62' x H: 0')
CIE Type: Indirect

Input Watts (W): 180
Input Voltage (V): NR
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

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CATALOG NUMBER: 74IC/2BX

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	48	48	48	48	41	41	41	41	28	28	28	16	16	16	5	5	5
1	43	41	39	38	37	35	34	33	24	23	23	14	13	13	4	4	4
2	39	36	33	31	33	31	29	27	21	20	19	12	11	11	4	4	4
3	36	32	28	26	30	27	24	22	19	17	16	11	10	9	3	3	3
4	33	28	24	21	28	24	21	19	16	15	13	9	9	8	3	3	3
5	30	25	21	18	25	21	18	16	15	13	11	8	7	7	3	2	2
6	27	22	18	16	23	19	16	14	13	11	10	8	6	6	2	2	2
7	25	20	16	13	21	17	14	12	12	10	8	7	6	5	2	2	2
8	23	18	14	12	20	15	12	10	10	9	7	6	5	4	2	2	1
9	22	16	13	10	18	14	11	9	10	8	6	6	5	4	2	1	1
10	20	14	11	9	17	12	10	8	9	7	6	5	4	3	2	1	1

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	235.2	2.7	1.4
100°-110°	844.2	9.8	4.9
110°-120°	1332.5	15.5	7.7
120°-130°	1532.4	17.8	8.9
130°-140°	1504.9	17.5	8.7
140°-150°	1264.6	14.7	7.4
150°-160°	1003.0	11.7	5.8
160°-170°	649.4	7.6	3.8
170°-180°	219.2	2.6	1.3
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	2411.9	28.1	14.0
90°-150°	6713.8	78.2	39.0
90°-180°	8585.0	100.0	49.9
0°-180°	8585.4	100.0	49.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	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°	0	0	0	0	0	38
95°	280	405	120	26	24	433
105°	1657	1700	454	90	78	1750
115°	2998	2727	859	284	168	2908
125°	3629	2950	1242	749	554	3184
135°	3605	2893	1594	1139	1102	2741
145°	2998	2603	1851	1439	1373	1912
155°	2727	2554	2113	1790	1707	1271
165°	2510	2603	2274	2087	2039	726
175°	2230	2283	2304	2296	2246	223
180°	2312	2312	2312	2312	2312	

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CATALOG NUMBER: 74IC/2BX

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0
95°	280	319	405	428	120	30	26	26	24
100°	920	957	1049	976	269	68	52	48	46
105°	1657	1700	1700	1352	454	153	90	79	78
110°	2400	2402	2341	1621	666	352	140	120	116
115°	2998	2972	2727	1749	859	579	284	174	168
120°	3342	3250	2842	1718	1039	740	509	343	319
125°	3629	3504	2950	1844	1242	905	749	585	554
130°	3606	3430	2906	1902	1395	1061	976	837	817
135°	3605	3462	2893	2044	1594	1267	1139	1120	1102
140°	3327	3199	2632	2036	1702	1421	1259	1236	1236
145°	2998	2864	2603	2126	1851	1605	1439	1380	1373
150°	2819	2763	2579	2266	1968	1748	1589	1518	1509
155°	2727	2686	2554	2334	2113	1935	1790	1719	1707
160°	2695	2660	2641	2386	2250	2102	1966	1906	1893
165°	2510	2551	2603	2305	2274	2191	2087	2043	2039
170°	2489	2498	2461	2255	2314	2290	2196	2161	2156
175°	2230	2256	2283	2264	2304	2348	2296	2253	2246
180°	2312	2312	2312	2312	2312	2312	2312	2312	2312

(END OF REPORT)