

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. 6850.0

Luminaire Tested: **74IC-1T8-4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 6850.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 74IC-1T8-4FT
Description: 1/32W T8 LAMP 48x8x3 INDIRECT ASYMM LUMINAIRE
Light Source: -
F32T8/SP35/RS
Ballast/Driver: -

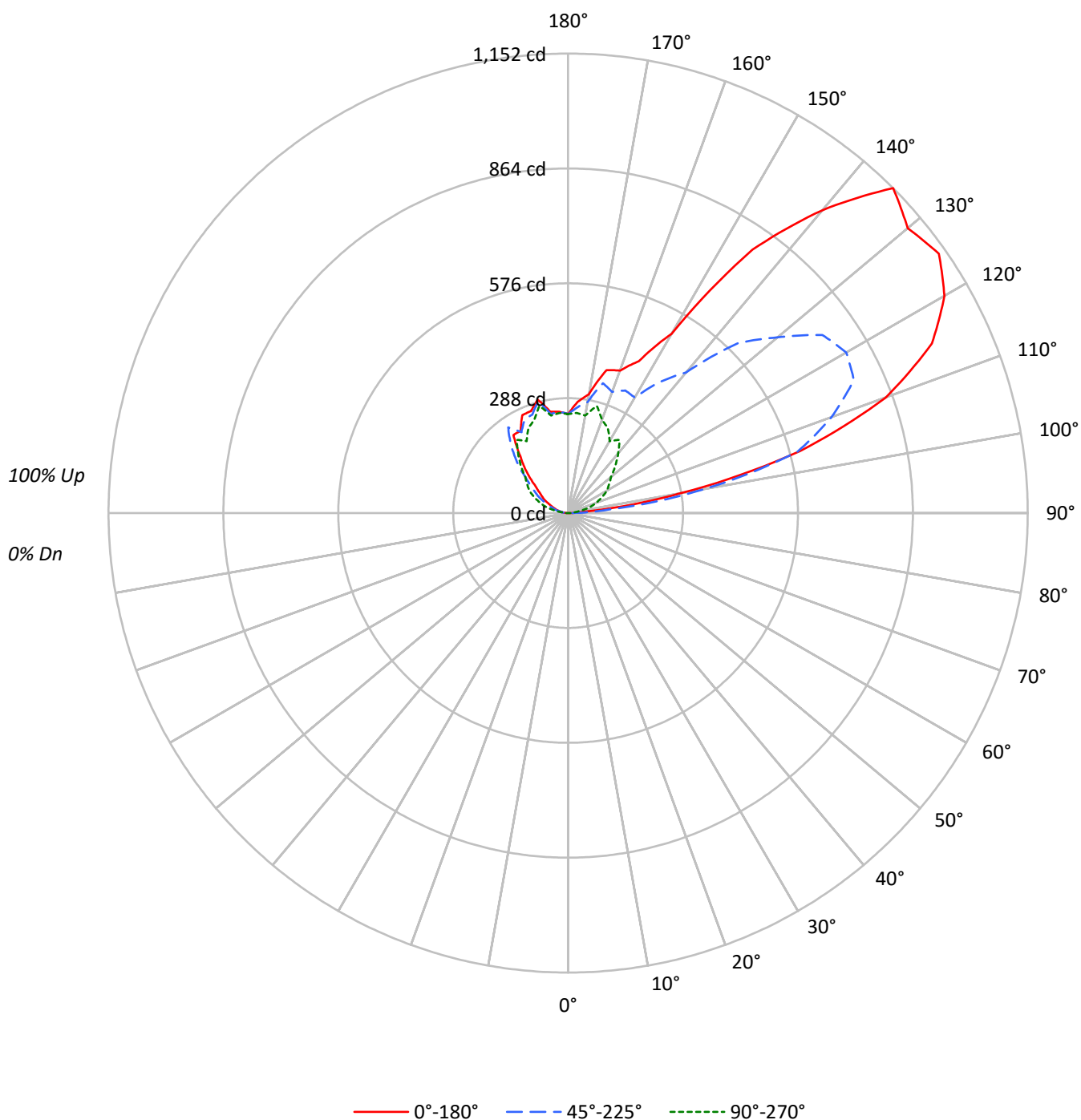
Summary

Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 1797.8 lumens
Efficiency: 62.0%
Efficacy: 21.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 4' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 83
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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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	59	59	59	59	50	50	50	50	34	34	34	20	20	20	6	6	6
1	54	51	49	47	46	44	42	40	30	29	28	17	17	16	6	5	5
2	49	45	41	38	42	38	35	33	26	25	23	15	14	14	5	5	4
3	44	39	35	32	38	34	30	28	23	21	19	13	12	11	4	4	4
4	41	34	30	27	34	30	26	23	20	18	16	12	11	10	4	3	3
5	37	31	26	23	31	26	22	20	18	16	14	10	9	8	3	3	3
6	34	27	23	19	29	23	20	17	16	14	12	9	8	7	3	3	2
7	31	24	20	17	27	21	17	15	14	12	10	8	7	6	3	2	2
8	29	22	17	14	25	19	15	13	13	11	9	8	6	5	2	2	2
9	27	20	16	13	23	17	13	11	12	9	8	7	6	5	2	2	2
10	25	18	14	11	21	15	12	10	11	8	7	6	5	4	2	2	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°	64.3	3.6	2.2
100°-110°	260.1	14.5	9.0
110°-120°	358.9	20.0	12.4
120°-130°	349.7	19.5	12.1
130°-140°	303.3	16.9	10.5
140°-150°	217.4	12.1	7.5
150°-160°	135.5	7.5	4.7
160°-170°	83.7	4.7	2.9
170°-180°	25.0	1.4	0.9
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°	683.2	38.0	23.6
90°-150°	1553.7	86.4	53.6
90°-180°	1798.0	100.0	62.0
0°-180°	1797.8	100.0	62.0

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	5
95°	37	103	12	12	10	125
105°	602	595	56	33	29	617
115°	1006	790	93	66	52	978
125°	1134	778	125	109	85	1002
135°	1152	602	167	181	148	854
145°	806	401	224	262	239	495
155°	420	339	235	258	271	203
165°	371	337	278	289	294	102
175°	280	266	252	255	255	27
180°	248	248	248	248	248	

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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°	37	49	103	141	12	13	12	12	10
100°	287	313	346	260	28	24	18	17	17
105°	602	628	595	367	56	46	33	30	29
110°	847	820	702	394	74	66	46	40	38
115°	1006	968	790	353	93	95	66	56	52
120°	1089	1034	805	278	112	124	89	74	70
125°	1134	1053	778	228	125	143	109	92	85
130°	1111	1023	685	231	140	159	139	117	109
135°	1152	1011	602	255	167	187	181	155	148
140°	991	859	460	274	195	210	222	199	187
145°	806	661	401	297	224	240	262	250	239
150°	519	430	334	262	208	219	234	243	238
155°	420	392	339	283	235	247	258	267	271
160°	380	363	323	282	248	254	263	267	272
165°	371	361	337	303	278	282	289	295	294
170°	303	295	283	267	248	251	252	259	258
175°	280	275	266	259	252	256	255	256	255
180°	248	248	248	248	248	248	248	248	248

(END OF REPORT)