

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. 12048.1

Luminaire Tested: **S292 3/14 T5 S17**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 12048.1  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S292 3/14 T5 S17  
Description: 3/14W T5 2x2'RECESSED GRID LUMINAIRE w/WHITE REFLECTOR  
Light Source: -  
FP14T5/835  
Ballast/Driver: 2 UNIVERSAL BALLAST #B228PUNV-C WATTS=50 REFL=92%

**Summary**

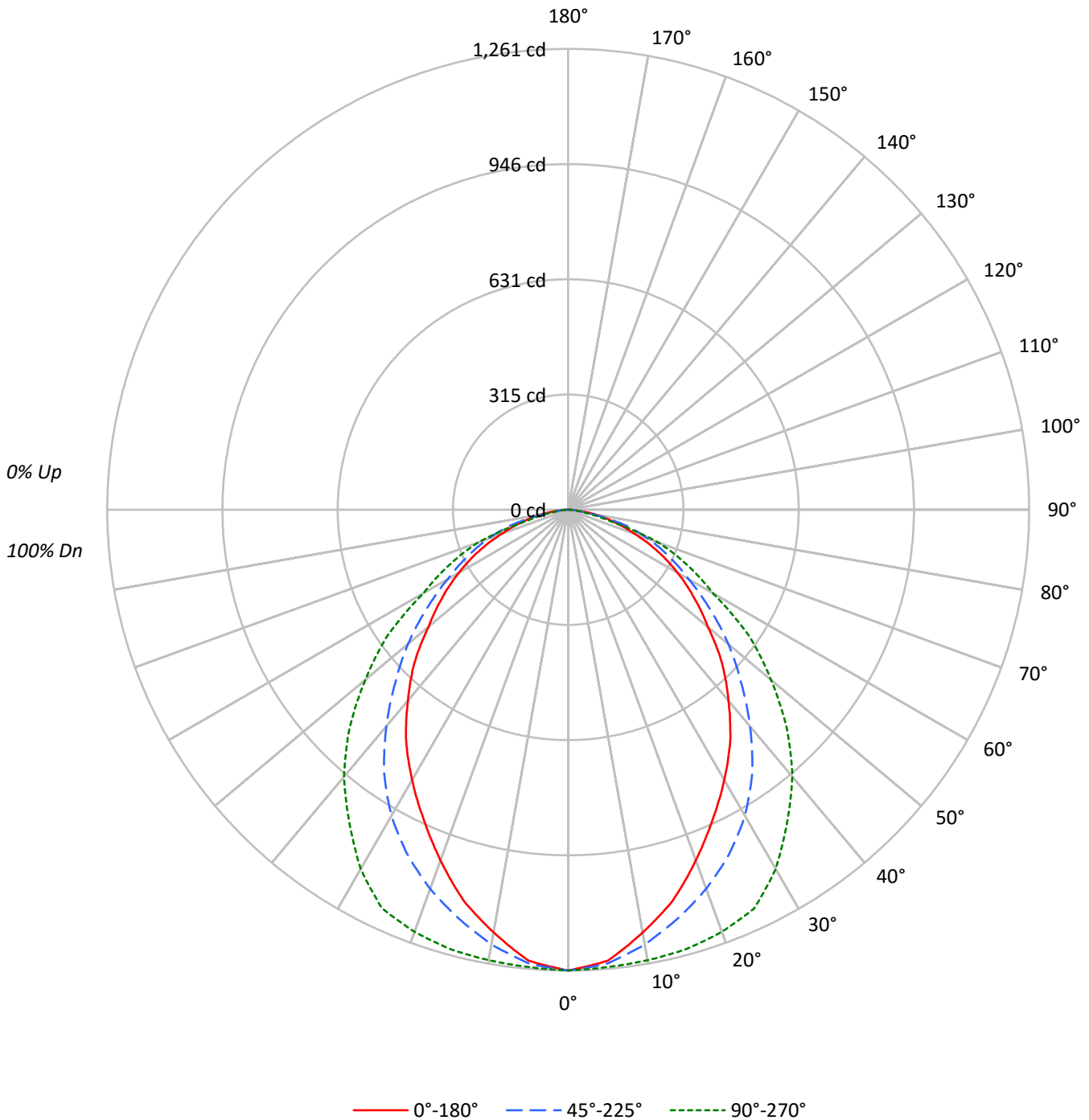
Lumens per Lamp: 1350 (3 lamps)  
Luminaire Lumens: 2941.2 lumens  
Efficiency: 72.6%  
Efficacy: 58.8 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.31 / 1.25  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	86	86	86	86	84	84	84	84	81	81	81	77	77	77	74	74	74	73				
1	80	77	74	71	78	75	72	70	72	70	68	69	67	66	66	65	64	62				
2	73	67	63	59	71	66	62	58	63	60	57	61	58	56	59	57	54	53				
3	67	60	54	50	65	59	53	49	56	52	48	54	51	47	53	49	47	45				
4	61	53	47	42	60	52	47	42	50	46	42	49	45	41	47	44	41	39				
5	57	48	42	37	55	47	41	37	45	40	36	44	39	36	43	39	36	34				
6	52	43	37	32	51	43	37	32	41	36	32	40	35	32	39	35	32	30				
7	49	39	33	29	48	39	33	29	38	32	29	37	32	28	36	31	28	27				
8	45	36	30	26	44	35	30	26	35	29	26	34	29	26	33	29	25	24				
9	43	33	27	23	42	33	27	23	32	27	23	31	26	23	30	26	23	22				
10	40	31	25	21	39	30	25	21	30	25	21	29	24	21	28	24	21	20				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3694	3694	3694
5°	3643	3664	3693
10°	3495	3593	3724
15°	3357	3511	3775
20°	3182	3441	3831
25°	3022	3364	3891
30°	2888	3271	3839
35°	2764	3139	3733
40°	2608	2959	3648
45°	2469	2771	3504
50°	2274	2606	3299
55°	2150	2410	3095
60°	2027	2232	2677
65°	1878	2114	2502
70°	1661	2004	2244
75°	1471	1777	1267
80°	1248	961	793
85°	807	571	470



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	117.9	4.0	2.9
10°-20°	328.8	11.2	8.1
20°-30°	483.7	16.4	11.9
30°-40°	555.1	18.9	13.7
40°-50°	535.1	18.2	13.2
50°-60°	440.0	15.0	10.9
60°-70°	308.3	10.5	7.6
70°-80°	146.6	5.0	3.6
80°-90°	25.9	0.9	0.6
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	930.3	31.6	23.0
0°-40°	1485.4	50.5	36.7
0°-60°	2460.5	83.7	60.8
0°-90°	2941.2	100.0	72.6
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	2941.2	100.0	72.6

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1239	1238	1246	1254	1256	116
15°	1107	1120	1158	1212	1245	311
25°	935	967	1041	1131	1204	432
35°	773	805	878	961	1044	482
45°	596	631	669	761	846	458
55°	421	439	472	547	606	377
65°	271	282	305	341	361	268
75°	130	134	157	122	112	139
85°	24	21	17	16	14	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1261	1261	1261	1261	1261
5°	1239	1238	1246	1254	1256
10°	1175	1182	1208	1238	1252
15°	1107	1120	1158	1212	1245
20°	1021	1044	1104	1174	1229
25°	935	967	1041	1131	1204
30°	854	880	967	1066	1135
35°	773	805	878	961	1044
40°	682	720	774	859	954
45°	596	631	669	761	846
50°	499	530	572	642	724
55°	421	439	472	547	606
60°	346	364	381	426	457
65°	271	282	305	341	361
70°	194	203	234	257	262
75°	130	134	157	122	112
80°	74	68	57	49	47
85°	24	21	17	16	14
90°	0	0	0	0	0

(END OF REPORT)