

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. 12045.0

Luminaire Tested: **S292 2/14 T5 S17**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 12045.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S292 2/14 T5 S17  
Description: 2/14W T5 LAMP 2x2'RECESSED GRID LUMINAIRE w/WHITE REFL  
Light Source: -  
FP14T5/835  
Ballast/Driver: UNIVERSAL BALLAST #B228PUNV-C WATTS=34 REFL=92%

**Summary**

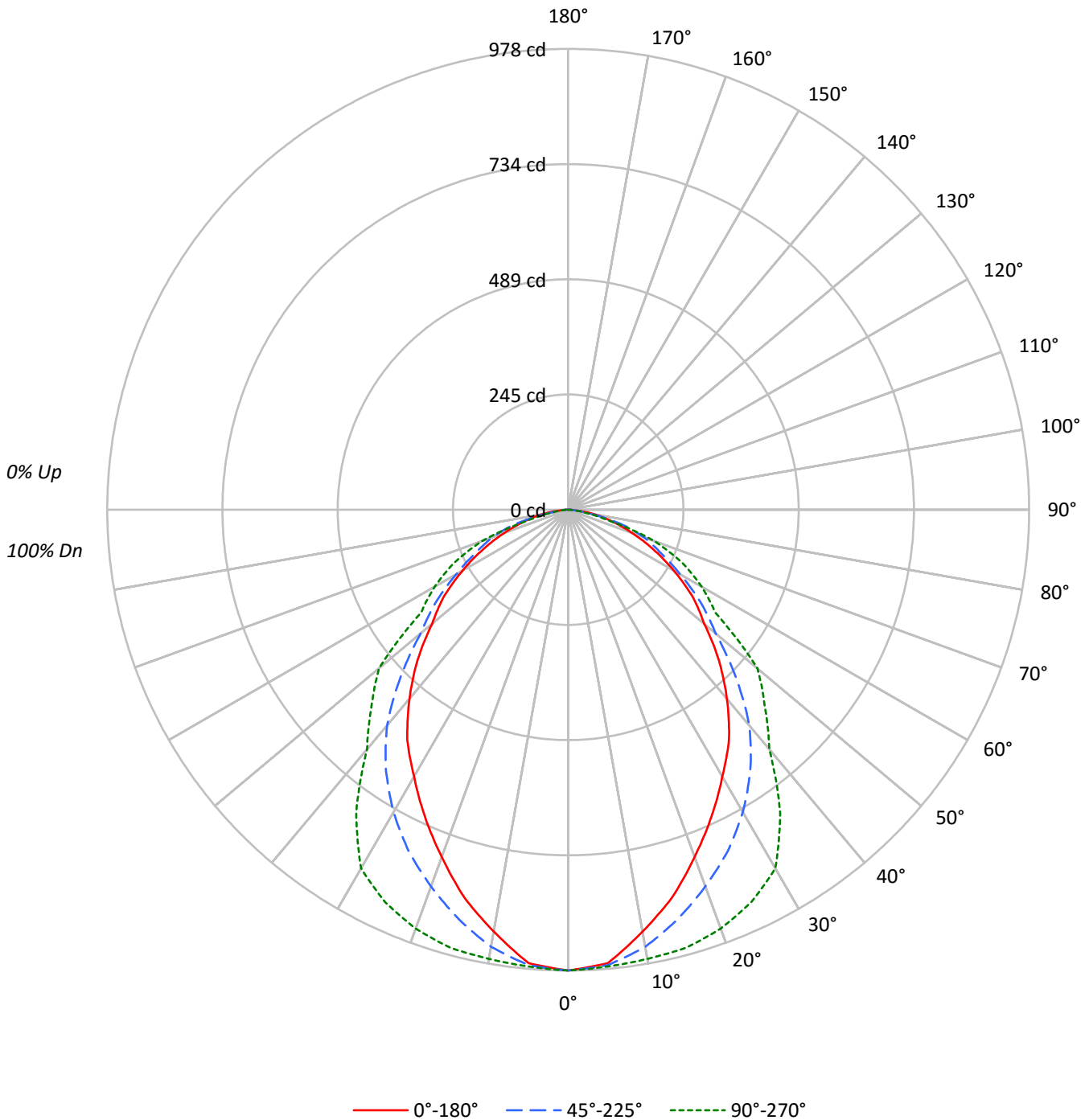
Lumens per Lamp: 1350 (2 lamps)  
Luminaire Lumens: 2206.6 lumens  
Efficiency: 81.7%  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.29 / 1.24  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 34  
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																	
RC	80									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	50	30	10	50	30	10	50	30	10	0															
RCR																																													
0	97	97	97	97	95	95	95	95	91	91	91	87	87	87	83	83	83	82																											
1	90	86	83	80	88	84	82	79	81	79	76	78	76	74	75	73	72	70																											
2	82	76	71	67	80	75	70	66	72	68	64	69	66	63	67	64	61	60																											
3	75	67	61	56	73	66	60	56	64	59	55	62	57	54	59	56	53	51																											
4	69	60	53	48	68	59	53	48	57	52	47	55	50	47	54	49	46	44																											
5	64	54	47	42	62	53	47	42	52	46	41	50	45	41	48	44	40	39																											
6	59	49	42	37	58	48	42	37	47	41	37	45	40	36	44	40	36	34																											
7	55	45	38	33	54	44	37	33	43	37	33	42	36	32	41	36	32	31																											
8	52	41	34	30	50	40	34	30	39	34	29	38	33	29	37	33	29	28																											
9	48	38	31	27	47	37	31	27	36	31	27	35	30	27	35	30	26	25																											
10	45	35	29	24	44	34	28	24	34	28	24	33	28	24	32	27	24	23																											

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

	0°	45°	90°
0°	2865	2865	2865
5°	2840	2852	2861
10°	2704	2802	2879
15°	2584	2726	2920
20°	2444	2653	2949
25°	2324	2585	2970
30°	2212	2506	2973
35°	2128	2410	2803
40°	2004	2287	2539
45°	1872	2084	2444
50°	1718	1859	2388
55°	1644	1752	1946
60°	1517	1605	1916
65°	1379	1497	1850
70°	1233	1464	1661
75°	1086	1290	1007
80°	961	658	574
85°	571	437	336



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	91.6	4.2	3.4
10°-20°	254.3	11.5	9.4
20°-30°	371.7	16.8	13.8
30°-40°	423.6	19.2	15.7
40°-50°	395.4	17.9	14.6
50°-60°	317.2	14.4	11.7
60°-70°	224.0	10.1	8.3
70°-80°	110.0	5.0	4.1
80°-90°	18.8	0.9	0.7
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°	717.6	32.5	26.6
0°-40°	1141.2	51.7	42.3
0°-60°	1853.8	84.0	68.7
0°-90°	2206.6	100.0	81.7
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°	2206.6	100.0	81.7

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	966	965	970	973	973	90
15°	852	865	899	938	963	239
25°	719	737	800	871	919	331
35°	595	613	674	749	784	371
45°	452	483	503	535	590	348
55°	322	333	343	376	381	286
65°	199	205	216	251	267	198
75°	96	99	114	103	89	104
85°	17	15	13	11	10	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	978	978	978	978	978
5°	966	965	970	973	973
10°	909	917	942	964	968
15°	852	865	899	938	963
20°	784	806	851	908	946
25°	719	737	800	871	919
30°	654	676	741	821	879
35°	595	613	674	749	784
40°	524	550	598	630	664
45°	452	483	503	535	590
50°	377	401	408	481	524
55°	322	333	343	376	381
60°	259	267	274	294	327
65°	199	205	216	251	267
70°	144	148	171	193	194
75°	96	99	114	103	89
80°	57	51	39	36	34
85°	17	15	13	11	10
90°	0	0	0	0	0

(END OF REPORT)