

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. 12049.0

Luminaire Tested: **S292 3/24 T5HO S17**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 12049.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S292 3/24 T5HO S17  
Description: 3/24W T5HO 2x2'RECESSED GRID LUMINAIRE w/WHITE REFLECTOR  
Light Source: -  
FP24T5HO/835  
Ballast/Driver: 2 SYLVANIA BALLAST #QT2x39-24/120PHO WATTS=80 REFL=92%

**Summary**

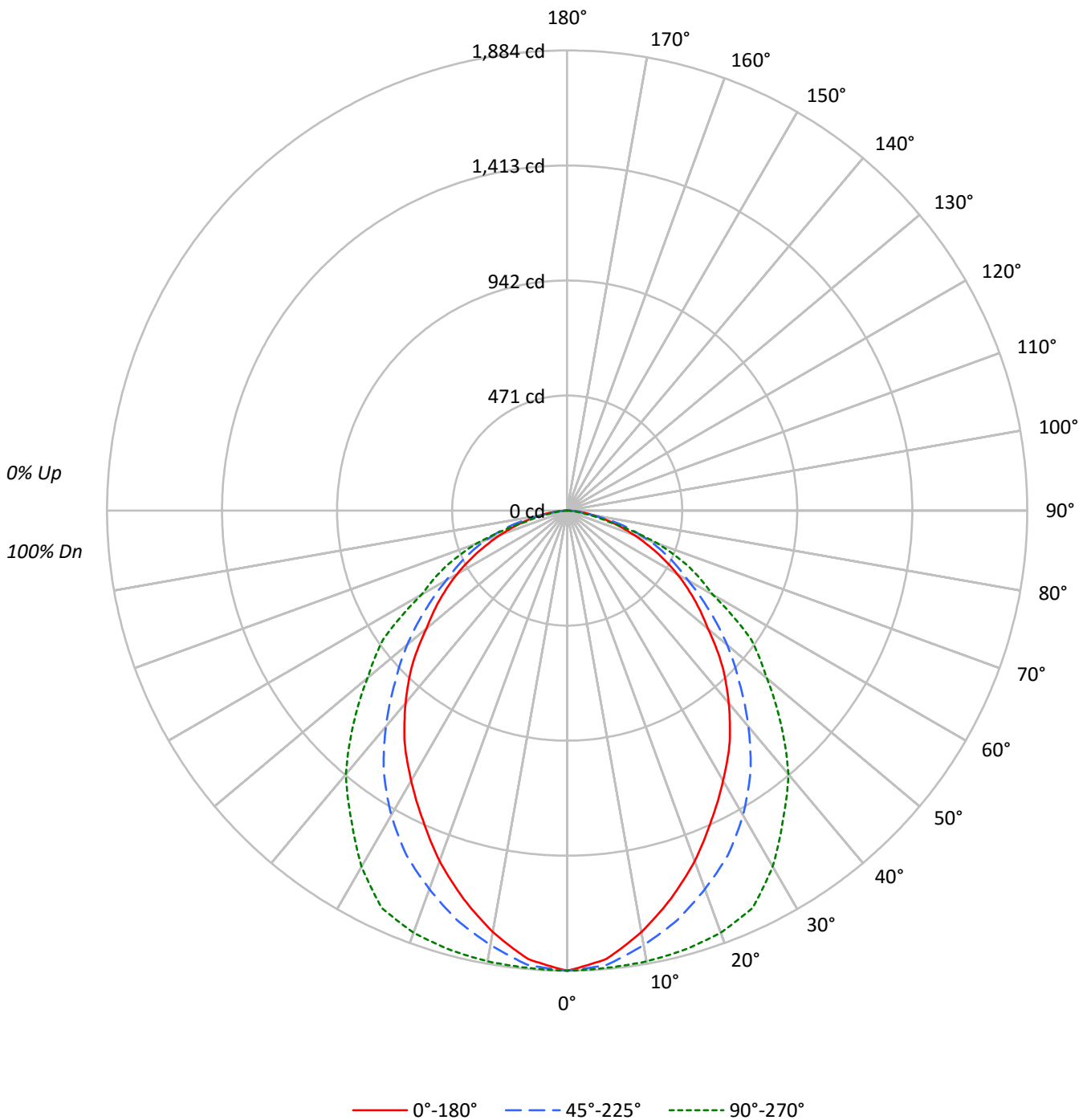
Lumens per Lamp: 2000 (3 lamps)  
Luminaire Lumens: 4406.5 lumens  
Efficiency: 73.4%  
Efficacy: 55.1 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.3 / 1.25  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 80  
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	0										
RCR																																					
0	87	87	87	87	85	85	85	85	82	82	82	78	78	78	75	75	75	73									73										
1	81	77	74	72	79	76	73	71	73	70	68	70	68	66	67	66	64	63									63										
2	74	68	63	59	72	67	62	59	64	60	57	62	59	56	60	57	55	53									53										
3	68	60	55	50	66	59	54	50	57	52	49	55	51	48	53	50	47	46									46										
4	62	54	48	43	60	53	47	43	51	46	42	49	45	41	48	44	41	39									39										
5	57	48	42	37	56	47	41	37	46	41	37	44	40	36	43	39	36	34									34										
6	53	44	37	33	52	43	37	33	42	36	32	40	36	32	39	35	32	30									30										
7	49	40	33	29	48	39	33	29	38	33	29	37	32	29	36	32	28	27									27										
8	46	36	30	26	45	36	30	26	35	30	26	34	29	26	33	29	26	24									24										
9	43	33	28	24	42	33	27	24	32	27	23	31	27	23	31	26	23	22									22										
10	40	31	25	21	39	31	25	21	30	25	21	29	25	21	28	24	21	20									20										

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

	0°	45°	90°
0°	5518	5518	5518
5°	5419	5489	5525
10°	5211	5371	5574
15°	4985	5267	5643
20°	4760	5140	5732
25°	4518	5032	5801
30°	4319	4870	5692
35°	4148	4681	5514
40°	3934	4416	5391
45°	3720	4134	5128
50°	3427	3896	4862
55°	3248	3615	4698
60°	3052	3345	4030
65°	2786	3223	3847
70°	2484	3040	3383
75°	2162	2705	1969
80°	1822	1586	1198
85°	1378	1042	773



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	176.2	4.0	2.9
10°-20°	491.3	11.2	8.2
20°-30°	722.0	16.4	12.0
30°-40°	825.7	18.7	13.8
40°-50°	795.8	18.1	13.3
50°-60°	663.0	15.0	11.0
60°-70°	465.4	10.6	7.8
70°-80°	225.1	5.1	3.8
80°-90°	42.0	1.0	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°	1389.5	31.5	23.2
0°-40°	2215.2	50.3	36.9
0°-60°	3673.9	83.4	61.2
0°-90°	4406.5	100.0	73.4
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°	4406.5	100.0	73.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1843	1853	1867	1875	1879	173
15°	1644	1674	1737	1807	1861	463
25°	1398	1447	1557	1686	1795	645
35°	1160	1204	1309	1421	1542	724
45°	898	945	998	1118	1238	690
55°	636	676	708	829	920	569
65°	402	424	465	518	555	400
75°	191	208	239	199	174	206
85°	41	36	31	27	23	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1884	1884	1884	1884	1884
5°	1843	1853	1867	1875	1879
10°	1752	1769	1806	1850	1874
15°	1644	1674	1737	1807	1861
20°	1527	1564	1649	1754	1839
25°	1398	1447	1557	1686	1795
30°	1277	1318	1440	1574	1683
35°	1160	1204	1309	1421	1542
40°	1029	1076	1155	1265	1410
45°	898	945	998	1118	1238
50°	752	803	855	952	1067
55°	636	676	708	829	920
60°	521	544	571	638	688
65°	402	424	465	518	555
70°	290	309	355	387	395
75°	191	208	239	199	174
80°	108	107	94	75	71
85°	41	36	31	27	23
90°	0	0	0	0	0

(END OF REPORT)