

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. 10826.0

Luminaire Tested: **501IP/2T5HO**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 10826.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: 501IP/2T5HO  
Description: 2/54W T5 HO 4'DIR/INDIRECT PENDANT MOUNT LUMINAIRE  
PERF SIDES w/OVERLAY SEMI-DIFFUSE CENTER REFL IN OPEN TOP  
Light Source: -  
FP54T5HO/835  
Ballast/Driver: SYLVANIA BALLAST #QT 2x54/120PHO WATTS=118

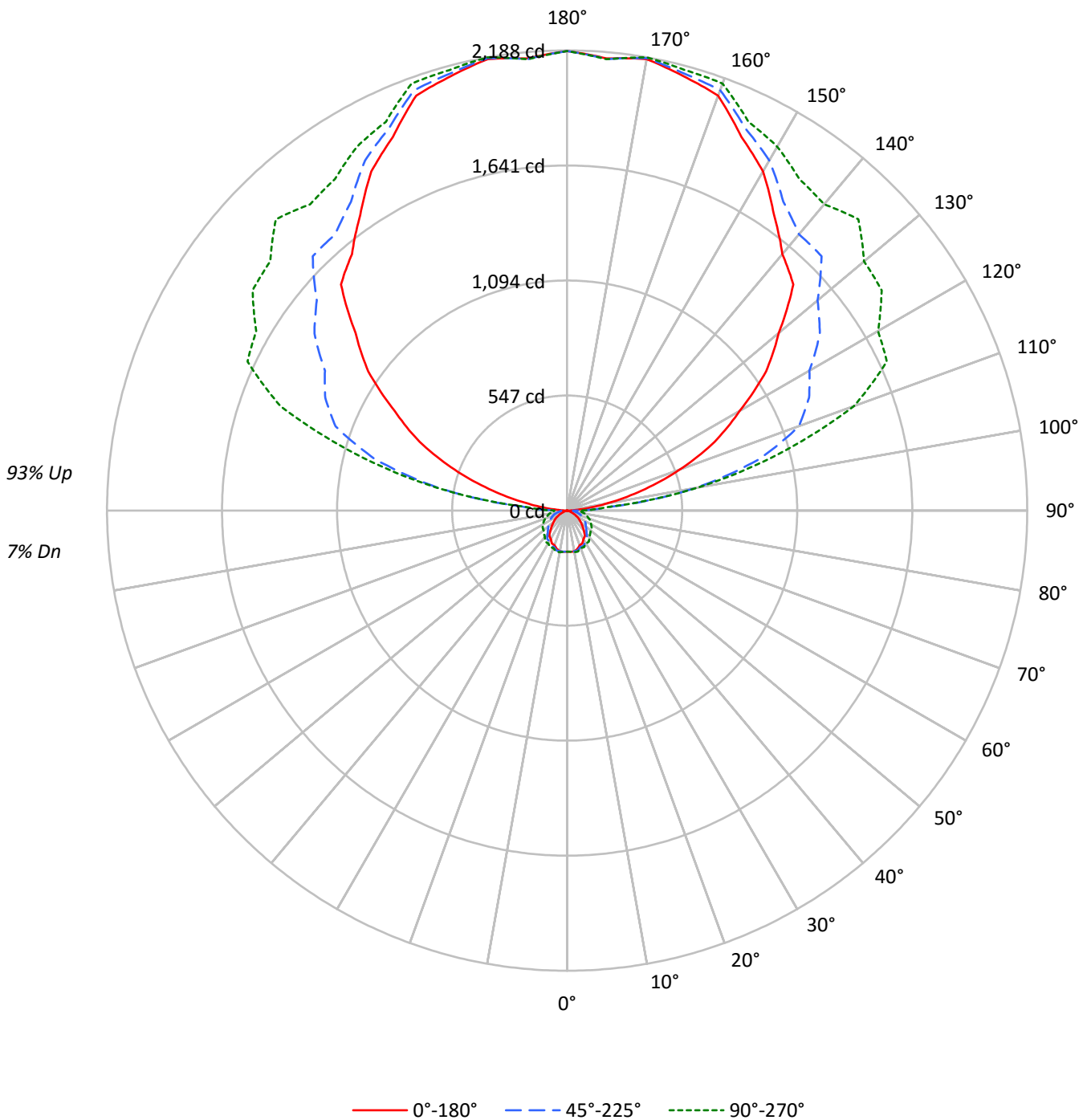
**Summary**

Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 8448.1 lumens  
Efficiency: 84.5%  
Efficacy: 71.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.41 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.52' x L: 3.75' x H: 0.08')  
CIE Type: Indirect

Input Watts (W): 118  
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	0
RCR																		
0	82	82	82	82	71	71	71	71	50	50	50	32	32	32	14	14	14	6
1	74	71	68	65	64	61	59	57	44	42	41	27	27	26	12	12	12	5
2	68	62	57	53	58	54	50	46	38	36	34	24	23	21	11	10	10	4
3	62	54	48	44	53	47	42	38	34	31	28	21	19	18	10	9	8	3
4	56	48	42	37	48	41	36	32	30	26	24	19	17	15	8	8	7	3
5	51	42	36	31	44	37	31	27	26	23	20	17	15	13	8	7	6	2
6	47	38	31	27	41	33	27	24	24	20	17	15	13	11	7	6	5	2
7	43	34	27	23	37	29	24	20	21	18	15	13	11	10	6	5	5	2
8	40	30	24	20	35	27	21	18	19	16	13	12	10	9	6	5	4	2
9	37	28	22	18	32	24	19	16	17	14	12	11	9	8	5	4	4	2
10	35	25	19	16	30	22	17	14	16	13	10	10	8	7	5	4	3	1

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

	0°	45°	90°
0°	1074	1074	1074
5°	1087	1072	1069
10°	1098	1078	1094
15°	1072	1081	1100
20°	1018	1031	1053
25°	1035	1067	1081
30°	974	1001	1049
35°	980	1018	1089
40°	868	935	1047
45°	778	891	1042
50°	693	862	1052
55°	633	869	1111
60°	509	865	1140
65°	398	849	1195
70°	273	858	1232
75°	177	864	1308
80°	0	808	1417
85°	0	820	1546



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.8	0.2	0.2
10°-20°	54.5	0.6	0.5
20°-30°	82.9	1.0	0.8
30°-40°	100.7	1.2	1.0
40°-50°	100.2	1.2	1.0
50°-60°	94.4	1.1	0.9
60°-70°	79.7	0.9	0.8
70°-80°	58.7	0.7	0.6
80°-90°	37.4	0.4	0.4
90°-100°	256.4	3.0	2.6
100°-110°	855.6	10.1	8.6
110°-120°	1210.9	14.3	12.1
120°-130°	1306.3	15.5	13.1
130°-140°	1304.1	15.4	13.0
140°-150°	1140.3	13.5	11.4
150°-160°	930.0	11.0	9.3
160°-170°	610.0	7.2	6.1
170°-180°	207.1	2.5	2.1
0°-30°	156.2	1.8	1.6
0°-40°	257.0	3.0	2.6
0°-60°	451.6	5.3	4.5
0°-90°	627.4	7.4	6.3
90°-120°	2322.8	27.5	23.2
90°-150°	6073.5	71.9	60.7
90°-180°	7821.0	92.6	78.2
0°-180°	8448.1	100.0	84.5

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	195	195	195	195	195	
5°	197	196	196	199	196	19
15°	189	189	196	201	201	53
25°	172	175	186	190	191	78
35°	148	155	165	176	180	90
45°	102	112	129	148	155	79
55°	68	81	107	132	142	60
65°	32	49	83	112	123	32
75°	9	23	60	87	98	9
85°	0	6	32	58	69	0
90°	0	6	27	52	60	6
95°	47	226	217	199	196	86
105°	365	587	946	1028	1043	392
115°	774	895	1269	1579	1677	759
125°	1155	1216	1467	1725	1826	1023
135°	1521	1562	1711	1888	1959	1149
145°	1715	1736	1792	1881	1925	1078
155°	1960	1971	2005	2028	2040	909
165°	2138	2142	2151	2162	2168	605
175°	2158	2157	2155	2155	2154	207
180°	2185	2185	2185	2185	2185	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	195	195	195	195	195
5°	197	196	196	199	196
10°	197	196	197	201	201
15°	189	189	196	201	201
20°	175	176	184	190	190
25°	172	175	186	190	191
30°	155	161	169	176	180
35°	148	155	165	176	180
40°	123	132	144	158	165
45°	102	112	129	148	155
50°	83	95	116	137	146
55°	68	81	107	132	142
60°	48	65	96	123	132
65°	32	49	83	112	123
70°	18	35	72	99	110
75°	9	23	60	87	98
80°	0	13	44	73	85
85°	0	6	32	58	69
90°	0	6	27	52	60
95°	47	226	217	199	196
100°	187	473	622	622	629
105°	365	587	946	1028	1043
110°	570	731	1172	1398	1450
115°	774	895	1269	1579	1677
120°	947	1031	1330	1602	1707
125°	1155	1216	1467	1725	1826
130°	1314	1357	1554	1749	1843
135°	1521	1562	1711	1888	1959
140°	1592	1626	1715	1846	1901
145°	1715	1736	1792	1881	1925
150°	1862	1877	1922	1969	1998
155°	1960	1971	2005	2028	2040
160°	2100	2107	2127	2153	2161
165°	2138	2142	2151	2162	2168
170°	2180	2180	2184	2187	2188
175°	2158	2157	2155	2155	2154
180°	2185	2185	2185	2185	2185

(END OF REPORT)