

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. 10206.0

Luminaire Tested: **501IP/1T5HO-4'**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 10206.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: 501IP/1T5HO-4'  
Description: 1/54W T5 HO LAMP 4'DIR/INDIRECT PENDANT MNT LUMINAIRE  
SEMI-SPEC REFLECTOR IN OPEN TOP w/PERF SIDES & OVERLAY  
Light Source: -  
FP54T5/HO/835  
Ballast/Driver: ENERGY SAVINGS BALLAST #ES-1-T5-54-120-F-LG WATTS=58

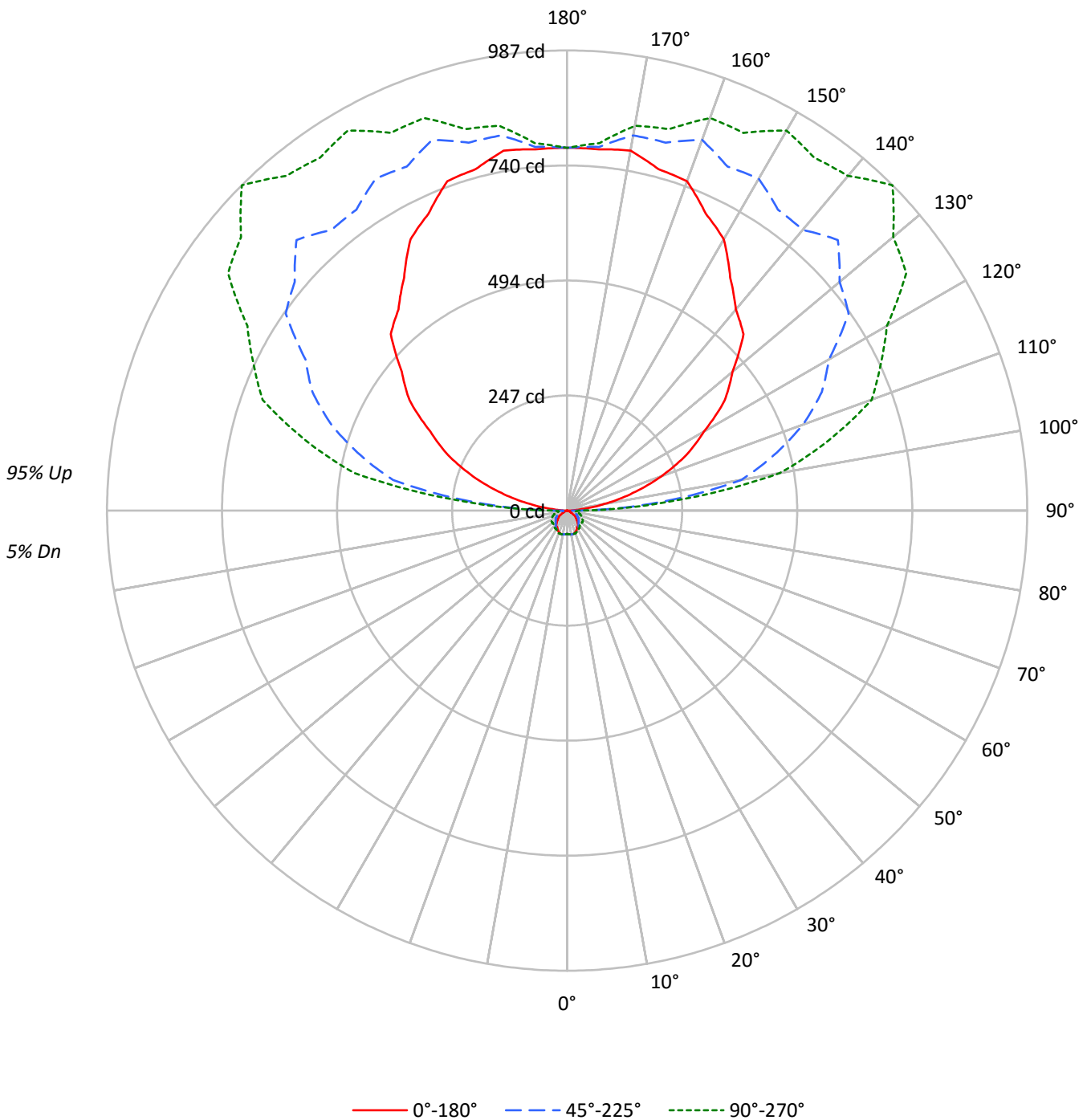
**Summary**

Lumens per Lamp: 4500 (1 lamp)  
Luminaire Lumens: 3744.5 lumens  
Efficiency: 83.2%  
Efficacy: 64.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.41 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.51' x L: 3.62' x H: 0.08')  
CIE Type: Indirect

Input Watts (W): 58  
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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 CATALOG NUMBER: 5011P/1T5HO-4'

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	0														
RCR																																						
0	80	80	80	80	69	69	69	69	48	48	48	29	29	29	12	12	12	4																				
1	73	69	66	64	63	60	57	55	42	40	39	26	25	24	10	10	10	3																				
2	66	60	56	52	57	52	48	45	37	34	32	22	21	20	9	9	8	2																				
3	60	53	47	43	52	46	41	38	32	29	27	20	18	17	8	7	7	2																				
4	55	47	41	36	47	40	35	32	28	25	23	17	16	14	7	6	6	2																				
5	50	41	35	31	43	36	31	27	25	22	19	15	14	12	6	6	5	1																				
6	46	37	31	26	39	32	27	23	23	19	17	14	12	10	6	5	4	1																				
7	42	33	27	23	36	29	23	20	20	17	14	12	11	9	5	4	4	1																				
8	39	30	24	20	34	26	21	17	18	15	13	11	9	8	5	4	3	1																				
9	36	27	21	17	31	23	18	15	17	13	11	10	8	7	4	4	3	1																				
10	34	24	19	15	29	21	17	13	15	12	10	9	7	6	4	3	3	1																				

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

	0°	45°	90°
0°	291	291	291
5°	297	295	294
10°	306	300	299
15°	312	303	300
20°	307	307	304
25°	299	303	299
30°	279	287	283
35°	287	280	294
40°	261	260	281
45°	241	255	290
50°	220	251	311
55°	206	256	338
60°	146	247	345
65°	105	247	368
70°	80	250	376
75°	21	242	392
80°	0	231	401
85°	0	214	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	4.9	0.1	0.1
10°-20°	14.8	0.4	0.3
20°-30°	22.5	0.6	0.5
30°-40°	26.8	0.7	0.6
40°-50°	27.2	0.7	0.6
50°-60°	26.8	0.7	0.6
60°-70°	22.6	0.6	0.5
70°-80°	16.2	0.4	0.4
80°-90°	10.2	0.3	0.2
90°-100°	186.1	5.0	4.1
100°-110°	441.3	11.8	9.8
110°-120°	556.2	14.9	12.4
120°-130°	610.1	16.3	13.6
130°-140°	596.2	15.9	13.2
140°-150°	495.4	13.2	11.0
150°-160°	379.2	10.1	8.4
160°-170°	232.2	6.2	5.2
170°-180°	75.8	2.0	1.7
0°-30°	42.2	1.1	0.9
0°-40°	69.0	1.8	1.5
0°-60°	123.0	3.3	2.7
0°-90°	172.0	4.6	3.8
90°-120°	1183.6	31.6	26.3
90°-150°	2885.3	77.1	64.1
90°-180°	3572.0	95.4	79.4
0°-180°	3744.5	100.0	83.2

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	50	50	50	50	50	
5°	51	51	51	51	51	5
15°	52	53	52	52	52	15
25°	47	48	50	50	50	21
35°	41	42	43	46	46	25
45°	30	31	35	38	41	23
55°	21	23	30	38	41	18
65°	8	15	23	32	36	8
75°	1	6	16	25	28	2
85°	0	0	8	16	18	0
90°	0	0	8	17	25	4
95°	26	153	194	211	220	38
105°	146	294	459	550	580	155
115°	282	426	603	718	742	277
125°	413	538	737	851	888	364
135°	535	637	821	950	987	405
145°	610	687	788	891	924	384
155°	703	758	814	872	894	327
165°	758	783	817	841	847	216
175°	778	777	783	789	791	74
180°	778	778	778	778	778	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	50	50	50	50	50
5°	51	51	51	51	51
10°	52	52	52	52	52
15°	52	53	52	52	52
20°	50	52	52	53	52
25°	47	48	50	50	50
30°	42	45	46	46	46
35°	41	42	43	46	46
40°	35	37	38	41	42
45°	30	31	35	38	41
50°	25	27	32	38	41
55°	21	23	30	38	41
60°	13	18	26	35	38
65°	8	15	23	32	36
70°	5	10	20	28	32
75°	1	6	16	25	28
80°	0	2	12	20	23
85°	0	0	8	16	18
90°	0	0	8	17	25
95°	26	153	194	211	220
100°	81	234	379	449	463
105°	146	294	459	550	580
110°	215	366	538	658	695
115°	282	426	603	718	742
120°	339	470	648	755	792
125°	413	538	737	851	888
130°	463	573	763	879	913
135°	535	637	821	950	987
140°	563	647	786	901	937
145°	610	687	788	891	924
150°	672	743	822	909	941
155°	703	758	814	872	894
160°	752	796	846	882	896
165°	758	783	817	841	847
170°	784	796	817	833	838
175°	778	777	783	789	791
180°	778	778	778	778	778

(END OF REPORT)