

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. 10650.0

Luminaire Tested: **CATALOG NO. : 602IP/2T5HO**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 10650.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: CATALOG NO. : 602IP/2T5HO
Description: 2/54W T5HO 4'INDIRECT PENDANT LUMINAIRE w/ WHITE BODY
Light Source: -
LAMP CODE : FP54T5/835
Ballast/Driver: -

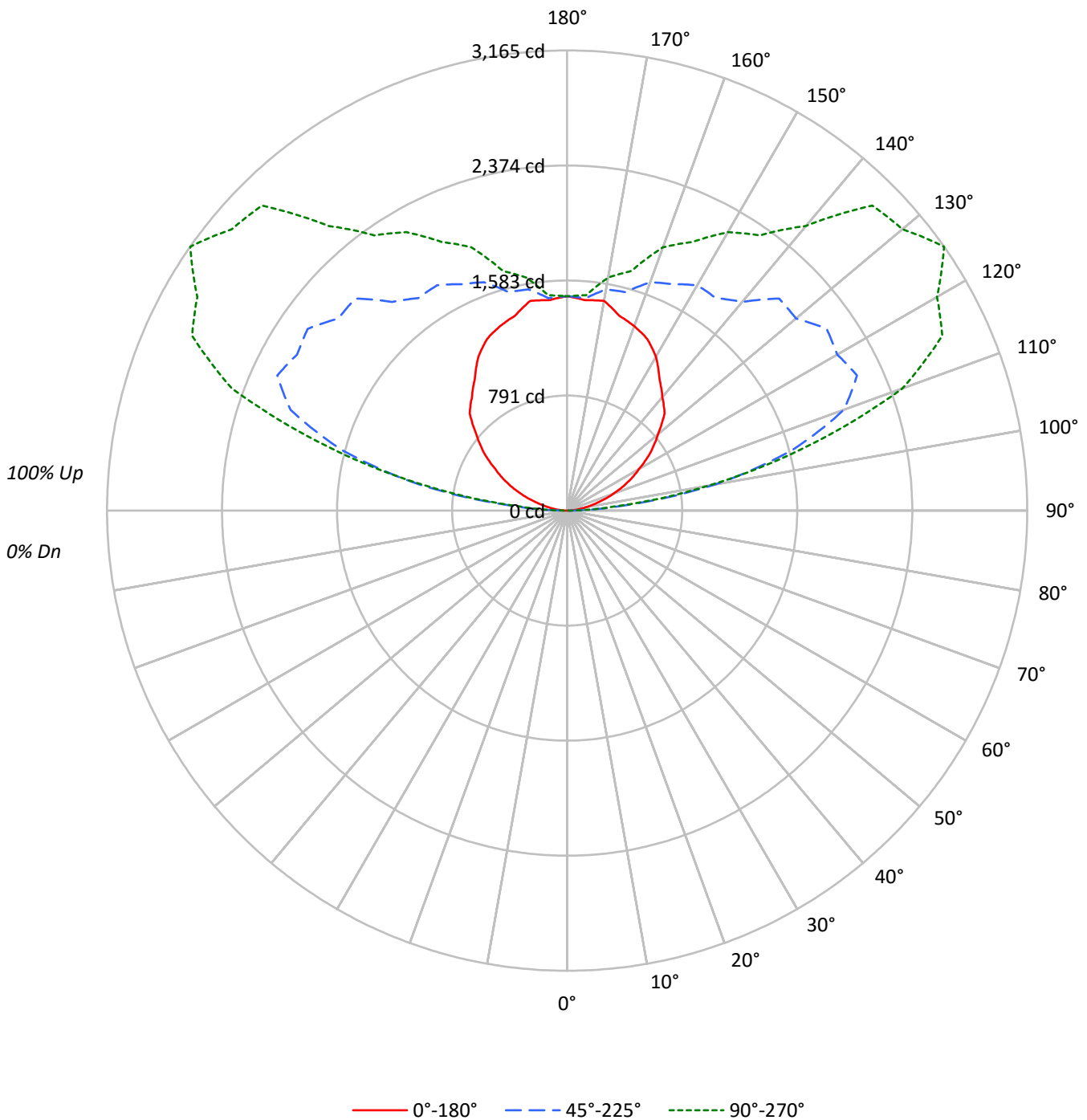
Summary

Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 9502.5 lumens
Efficiency: 95.0%
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.69' x L: 4.01' x H: 0')
CIE Type: Indirect

Input Watts (W): 120
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	91	91	91	91	77	77	77	77	53	53	53		30	30	30		10	10	10	0
1	82	78	75	72	70	67	64	62	46	44	43		26	26	25		8	8	8	0
2	75	68	63	59	64	59	54	51	40	38	35		23	22	21		7	7	7	0
3	68	60	54	49	58	51	46	42	35	32	30		20	19	17		7	6	6	0
4	62	53	46	41	53	45	40	35	31	28	25		18	16	15		6	5	5	0
5	57	47	40	35	48	40	34	30	28	24	21		16	14	13		5	5	4	0
6	52	42	35	30	44	36	30	26	25	21	18		14	12	11		5	4	4	0
7	48	37	30	26	41	32	26	22	22	18	16		13	11	9		4	4	3	0
8	44	34	27	22	38	29	23	19	20	16	14		12	10	8		4	3	3	0
9	41	30	24	19	35	26	21	17	18	15	12		11	9	7		3	3	2	0
10	38	28	21	17	32	24	18	15	16	13	11		10	8	6		3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	412.1	4.3	4.1
100°-110°	1384.2	14.6	13.8
110°-120°	1871.1	19.7	18.7
120°-130°	1814.1	19.1	18.1
130°-140°	1527.1	16.1	15.3
140°-150°	1115.8	11.7	11.2
150°-160°	787.8	8.3	7.9
160°-170°	447.5	4.7	4.5
170°-180°	142.9	1.5	1.4
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	3667.3	38.6	36.7
90°-150°	8124.2	85.5	81.2
90°-180°	9503.0	100.0	95.0
0°-180°	9502.5	100.0	95.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	8
95°	56	389	373	348	325	64
105°	225	1041	1601	1683	1711	242
115°	458	1148	2200	2714	2847	452
125°	702	1236	2179	2925	3165	624
135°	948	1361	2062	2705	2967	721
145°	1107	1361	1784	2155	2311	698
155°	1303	1447	1718	1944	2038	598
165°	1387	1440	1555	1659	1706	395
175°	1452	1454	1466	1481	1486	139
180°	1474	1474	1474	1474	1474	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0	0	0	0	0
5°	0	0	0	0	0
10°	0	0	0	0	0
15°	0	0	0	0	0
20°	0	0	0	0	0
25°	0	0	0	0	0
30°	0	0	0	0	0
35°	0	0	0	0	0
40°	0	0	0	0	0
45°	0	0	0	0	0
50°	0	0	0	0	0
55°	0	0	0	0	0
60°	0	0	0	0	0
65°	0	0	0	0	0
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0
90°	0	0	0	0	0
95°	56	389	373	348	325
100°	128	862	1029	1007	986
105°	225	1041	1601	1683	1711
110°	339	1134	2025	2379	2453
115°	458	1148	2200	2714	2847
120°	571	1154	2145	2761	2938
125°	702	1236	2179	2925	3165
130°	816	1271	2055	2757	3011
135°	948	1361	2062	2705	2967
140°	1019	1341	1873	2352	2556
145°	1107	1361	1784	2155	2311
150°	1222	1428	1789	2093	2211
155°	1303	1447	1718	1944	2038
160°	1350	1451	1671	1848	1927
165°	1387	1440	1555	1659	1706
170°	1465	1486	1545	1604	1627
175°	1452	1454	1466	1481	1486
180°	1474	1474	1474	1474	1474

(END OF REPORT)