

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. 11404.0

Luminaire Tested: **CATALOG NO. : 611IP\2T5-4'**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 11404.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: CATALOG NO. : 611IP\2T5-4'
Description: 2/28W T5 LAMP 4'DIR/INDIRECT TWIN-BEAM PENDANT LUMINAIRE
Light Source: -
LAMP CODE : FP28T5/835
Ballast/Driver: MAGNETEK BALLAST #B228PUNV-C WATTS=63 REFL=88%

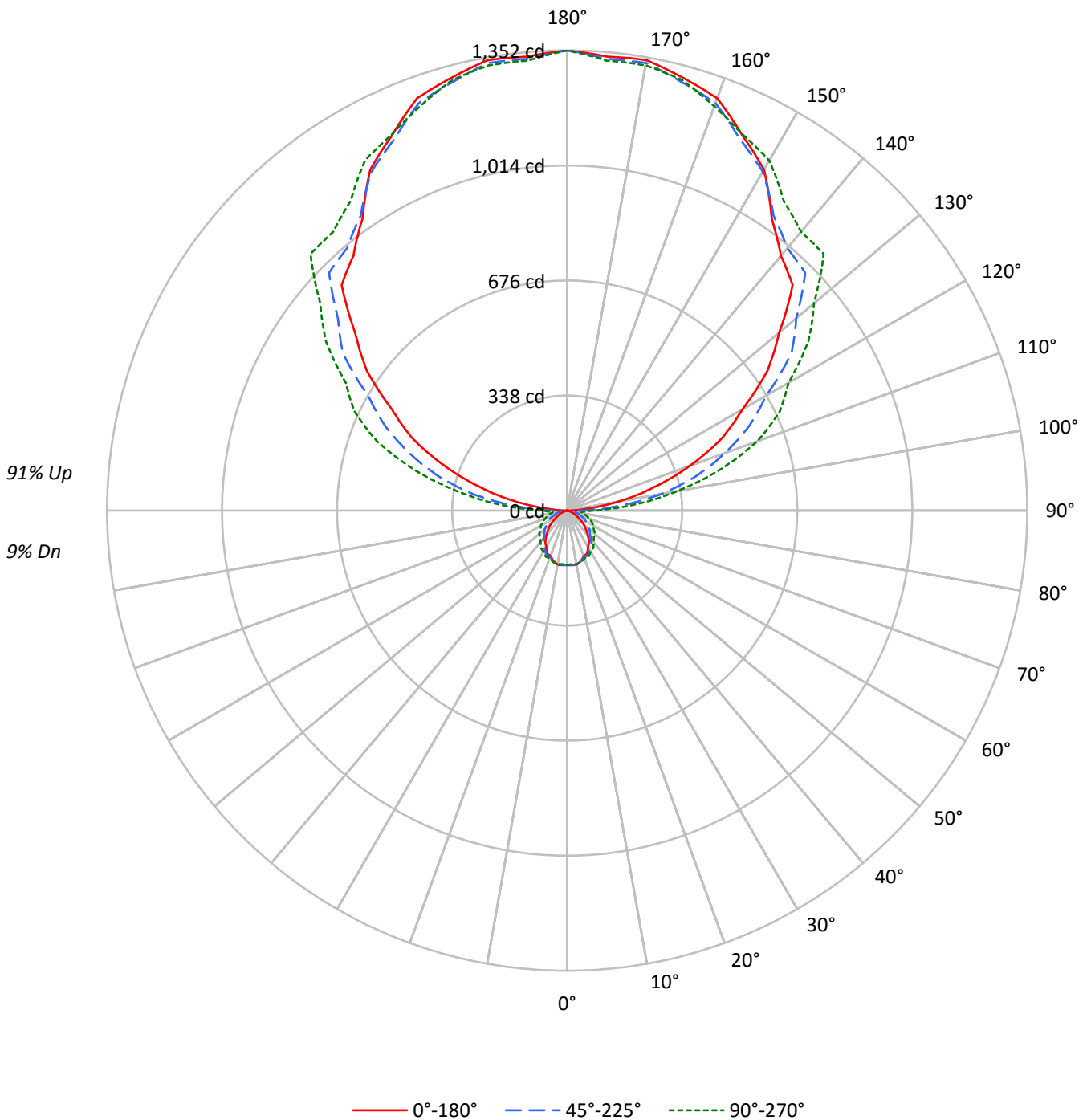
Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 4765.9 lumens
Efficiency: 82.2%
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.3 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 0.72' x L: 4' x H: 0.12')
CIE Type: Indirect

Input Watts (W): 63
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	80	80	80	80	70	70	70	70	50	50	50		32	32	32		16	16	16	8
1	73	69	66	64	63	60	58	56	43	42	40		28	27	26		13	13	13	6
2	66	60	56	52	57	53	49	45	38	35	33		24	23	22		12	11	11	5
3	60	53	47	43	52	46	42	38	33	30	28		21	20	18		10	10	9	4
4	55	47	41	36	48	41	36	32	29	26	24		19	17	16		9	8	8	4
5	50	41	35	31	43	36	31	27	26	23	20		17	15	13		8	7	7	3
6	46	37	31	26	40	32	27	23	23	20	17		15	13	12		7	7	6	3
7	43	33	27	23	37	29	24	20	21	18	15		14	12	10		7	6	5	3
8	39	30	24	20	34	26	21	18	19	16	13		12	10	9		6	5	5	2
9	36	27	21	17	32	24	19	15	17	14	12		11	9	8		6	5	4	2
10	34	25	19	15	29	22	17	14	16	13	10		10	8	7		5	4	4	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	599	599	599
5°	603	597	585
10°	609	593	590
15°	592	574	581
20°	559	549	558
25°	566	561	569
30°	522	522	546
35°	501	518	546
40°	452	470	516
45°	395	435	501
50°	359	427	516
55°	287	389	497
60°	234	377	512
65°	191	365	516
70°	121	321	504
75°	78	310	517
80°	18	284	510
85°	0	291	589



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	15.3	0.3	0.3
10°-20°	43.4	0.9	0.7
20°-30°	65.3	1.4	1.1
30°-40°	76.4	1.6	1.3
40°-50°	74.0	1.6	1.3
50°-60°	65.1	1.4	1.1
60°-70°	51.3	1.1	0.9
70°-80°	34.5	0.7	0.6
80°-90°	26.9	0.6	0.5
90°-100°	157.3	3.3	2.7
100°-110°	395.7	8.3	6.8
110°-120°	580.3	12.2	10.0
120°-130°	699.8	14.7	12.1
130°-140°	747.8	15.7	12.9
140°-150°	675.2	14.2	11.6
150°-160°	560.3	11.8	9.7
160°-170°	369.8	7.8	6.4
170°-180°	127.5	2.7	2.2
0°-30°	123.9	2.6	2.1
0°-40°	200.4	4.2	3.5
0°-60°	339.5	7.1	5.9
0°-90°	452.2	9.5	7.8
90°-120°	1133.4	23.8	19.5
90°-150°	3256.1	68.3	56.1
90°-180°	4314.0	90.5	74.4
0°-180°	4765.9	100.0	82.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	160	160	160	160	160	
5°	161	161	161	158	158	15
15°	154	152	154	157	157	43
25°	139	139	145	149	149	63
35°	112	117	125	131	134	69
45°	77	82	94	108	111	60
55°	46	54	72	90	95	42
65°	23	30	54	74	80	22
75°	6	12	33	54	59	7
85°	0	5	18	33	41	0
90°	0	11	36	59	72	7
95°	51	107	151	183	197	73
105°	264	291	392	452	466	281
115°	501	517	591	663	689	490
125°	719	720	804	847	865	637
135°	937	925	989	1048	1066	708
145°	1048	1038	1058	1096	1110	663
155°	1217	1207	1203	1212	1219	563
165°	1316	1319	1303	1309	1309	372
175°	1339	1335	1332	1328	1327	128
180°	1352	1352	1352	1352	1352	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	160	160	160	160	160
5°	161	161	161	158	158
10°	161	160	160	160	160
15°	154	152	154	157	157
20°	142	142	145	149	149
25°	139	139	145	149	149
30°	123	126	131	138	139
35°	112	117	125	131	134
40°	95	100	108	118	121
45°	77	82	94	108	111
50°	64	72	86	100	107
55°	46	54	72	90	95
60°	33	43	63	81	89
65°	23	30	54	74	80
70°	12	20	41	60	68
75°	6	12	33	54	59
80°	1	9	24	42	47
85°	0	5	18	33	41
90°	0	11	36	59	72
95°	51	107	151	183	197
100°	153	202	280	316	328
105°	264	291	392	452	466
110°	383	406	493	570	594
115°	501	517	591	663	689
120°	594	603	675	729	751
125°	719	720	804	847	865
130°	813	807	879	933	947
135°	937	925	989	1048	1066
140°	977	965	1006	1053	1069
145°	1048	1038	1058	1096	1110
150°	1157	1145	1150	1177	1188
155°	1217	1207	1203	1212	1219
160°	1289	1272	1274	1263	1264
165°	1316	1319	1303	1309	1309
170°	1344	1339	1335	1330	1328
175°	1339	1335	1332	1328	1327
180°	1352	1352	1352	1352	1352

(END OF REPORT)