

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. 14263.0

Luminaire Tested: **NEO-RAY 79PF-1T5-WR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 14263.0
Test Lab: BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: NEO-RAY 79PF-1T5-WR
Description: 1/54W T5HO C LAMP 4'RECESSED PERIMETER LUMINAIRE
WHITE REFLECTOR w/OPEN BOTTOM REFL=90%
UNIVERSAL BALLAST #B254PUNV-D WATTS=60
Light Source: -
FP54T5/835/C
Ballast/Driver: -

Summary

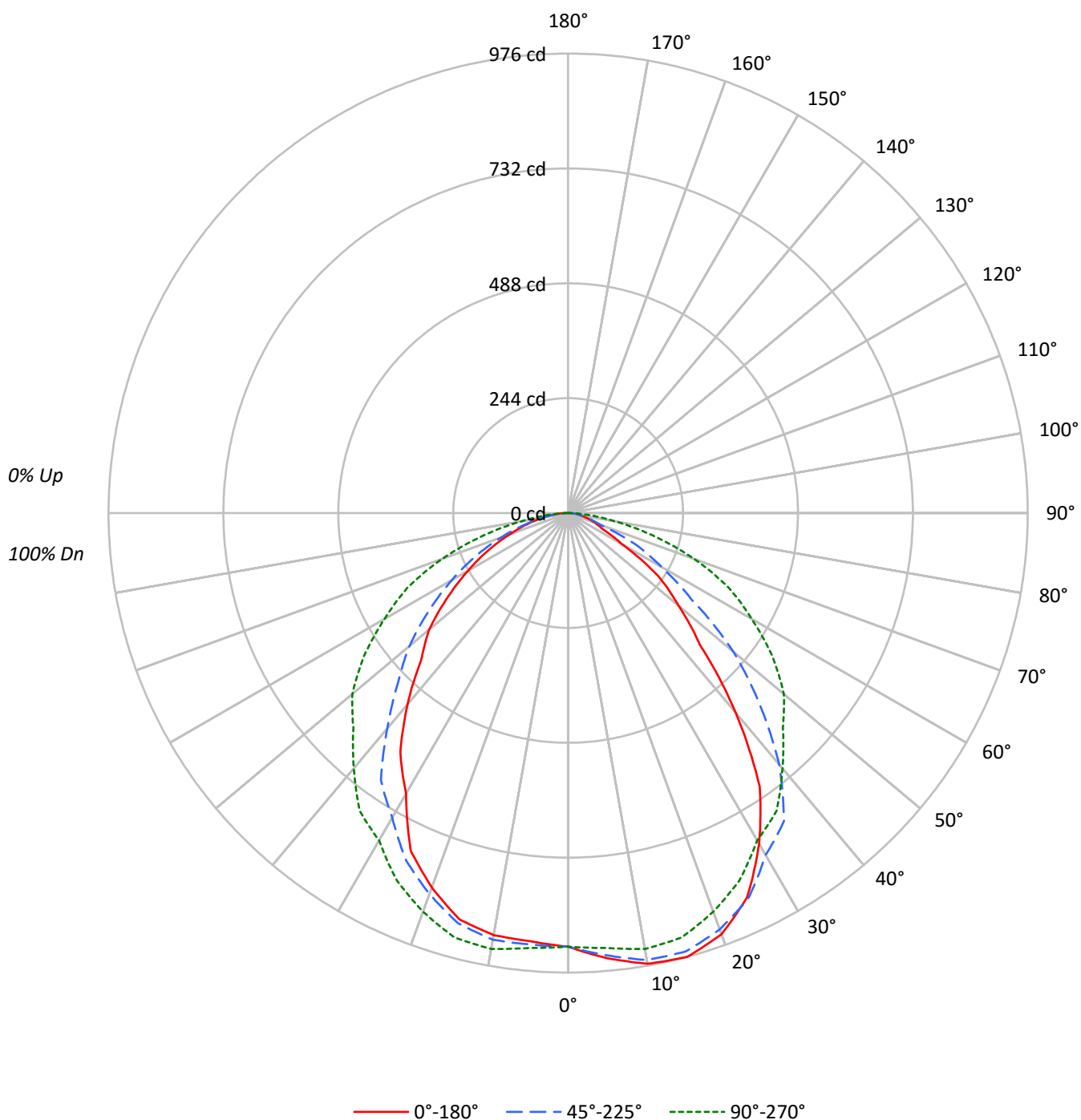
Lumens per Lamp: 4900 (1 lamp)
Luminaire Lumens: 2294.2 lumens
Efficiency: 46.8%
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.32
Luminous Opening: Rectangular (W 3.86' x L: 0.6' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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



TEST NUMBER: BALLABS TEST NO. 14263.0
CATALOG NUMBER: NEO-RAY 79PF-1T5-WR

Luminous Intensity Polar Plot



TEST NUMBER: BALLABS TEST NO. 14263.0
CATALOG NUMBER: NEO-RAY 79PF-1T5-WR

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	56	56	56	56	54	54	54	54	52	52	52	50	50	50	48	48	48
1	51	49	48	46	50	48	47	45	46	45	44	45	44	42	43	42	41
2	47	44	41	38	46	43	40	38	41	39	37	40	38	36	38	37	35
3	43	39	35	32	42	38	35	32	37	34	32	35	33	31	34	32	30
4	40	35	31	28	39	34	30	28	33	30	27	32	29	27	31	28	27
5	37	31	27	24	36	31	27	24	30	26	24	29	26	24	28	25	23
6	34	28	24	21	33	28	24	21	27	24	21	26	23	21	25	23	21
7	32	26	22	19	31	25	22	19	25	21	19	24	21	19	23	21	18
8	30	23	20	17	29	23	19	17	23	19	17	22	19	17	21	19	17
9	28	22	18	15	27	21	18	15	21	18	15	20	17	15	20	17	15
10	26	20	16	14	25	20	16	14	19	16	14	19	16	14	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4247	4247	4247
5°	4392	4291	4226
10°	4551	4401	4261
15°	4659	4454	4263
20°	4671	4421	4151
25°	4579	4380	4024
30°	4318	4275	3663
35°	3991	4345	3496
40°	3329	4262	3190
45°	2582	4206	2876
50°	2195	4290	2762
55°	1881	4253	2508
60°	1217	4150	2269
65°	873	4113	2029
70°	822	3842	1766
75°	730	3349	1550
80°	664	2655	1381
85°	688	1905	1323

TEST NUMBER: BALLABS TEST NO. 14263.0
CATALOG NUMBER: NEO-RAY 79PF-1T5-WR

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	89.1	3.9	1.8
10°-20°	262.4	11.4	5.4
20°-30°	391.8	17.1	8.0
30°-40°	451.2	19.7	9.2
40°-50°	420.3	18.3	8.6
50°-60°	338.5	14.8	6.9
60°-70°	215.4	9.4	4.4
70°-80°	100.2	4.4	2.0
80°-90°	25.3	1.1	0.5
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°	743.2	32.4	15.2
0°-40°	1194.4	52.1	24.4
0°-60°	1953.2	85.1	39.9
0°-90°	2294.2	100.0	46.8
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°	2294.2	100.0	46.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	921	921	921	921	921	
5°	949	943	927	920	913	91
15°	976	964	933	902	893	274
25°	900	904	861	814	791	411
35°	709	799	772	693	621	434
45°	396	575	645	511	441	318
55°	234	320	529	360	312	202
65°	80	158	377	216	186	87
75°	41	46	188	95	87	44
85°	13	14	36	22	25	14
90°	1	1	1	2	2	

TEST NUMBER: BALLABS TEST NO. 14263.0
CATALOG NUMBER: NEO-RAY 79PF-1T5-WR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	921	921	921	921	921	921	921	921	921
5°	949	949	943	938	927	926	920	914	913
10°	972	968	964	950	940	928	920	912	910
15°	976	973	964	952	933	916	902	897	893
20°	952	952	941	925	901	875	861	850	846
25°	900	900	904	887	861	833	814	798	791
30°	811	834	839	835	803	771	747	705	688
35°	709	740	799	803	772	733	693	638	621
40°	553	597	697	739	708	666	597	542	530
45°	396	439	575	666	645	599	511	463	441
50°	306	320	458	608	598	542	440	395	385
55°	234	251	320	523	529	458	360	320	312
60°	132	168	229	405	450	365	285	251	246
65°	80	84	158	290	377	282	216	190	186
70°	61	62	72	167	285	198	151	136	131
75°	41	42	46	95	188	123	95	89	87
80°	25	25	28	36	100	61	52	49	52
85°	13	14	14	17	36	25	22	25	25
90°	1	1	1	1	1	1	2	2	2

(END OF REPORT)