

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. 14264.0

Luminaire Tested: **NEO-RAY 79PF-2T5-WR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 14264.0
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-2T5-WR
Description: 2/54W T5HO C LAMP 4'RECESSED PERIMETER LUMINAIRE
WHITE REFLECTOR w/OPEN BOTTOM REFL=90%
UNIVERSAL BALLAST #B254PUNV-D WATTS=108
Light Source: -
FP54T5/835/C
Ballast/Driver: -

Summary

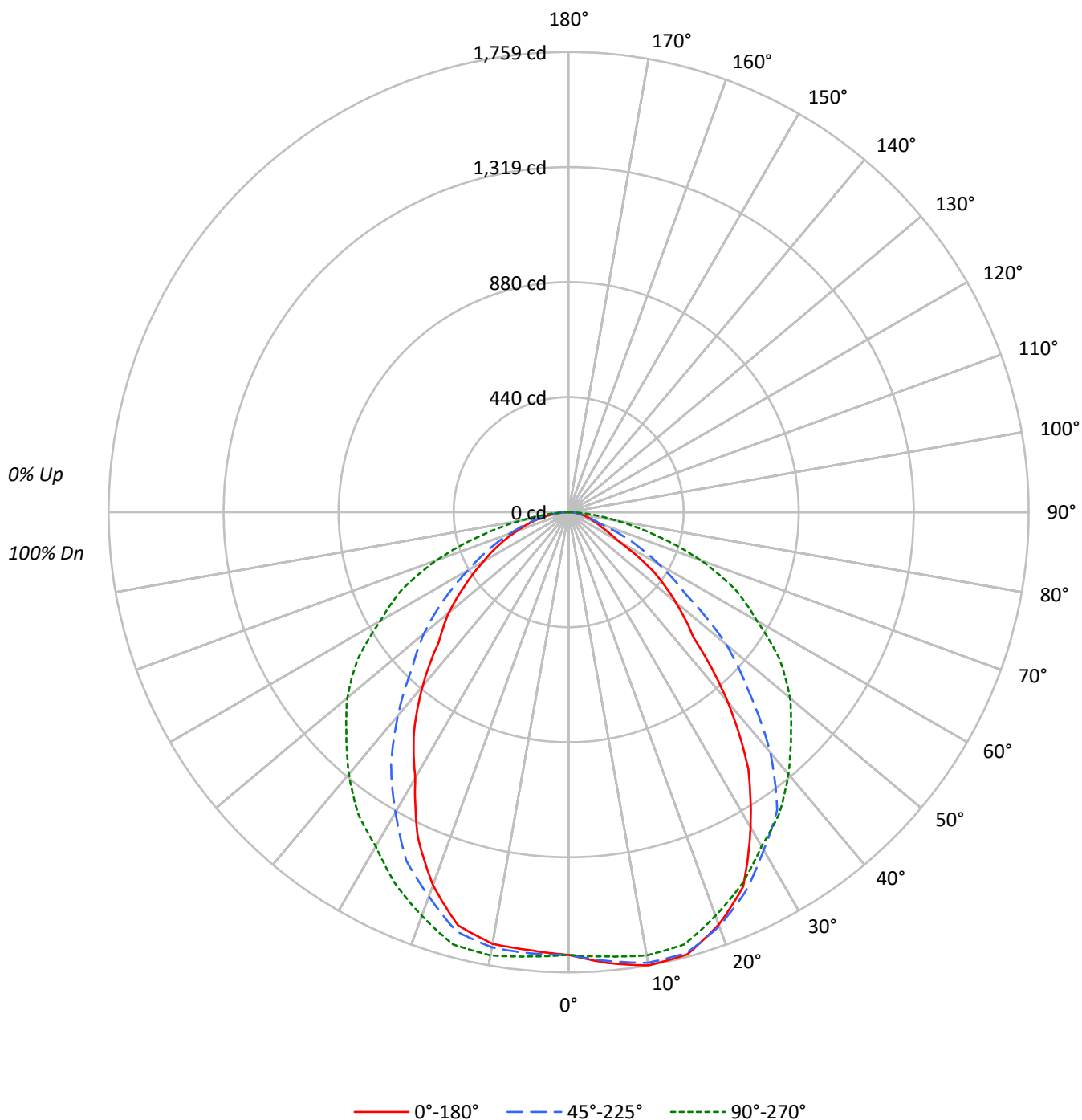
Lumens per Lamp: 4900 (2 lamps)
Luminaire Lumens: 4018.4 lumens
Efficiency: 41.0%
Efficacy: 37.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.3 / 1.28
Luminous Opening: Rectangular (W 3.86' x L: 0.6' x H: 0')
CIE Type: Direct

Input Watts (W): 108
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	49	49	49	49	48	48	48	48	46	46	46	44	44	44	42	42	42
1	45	43	42	40	44	42	41	40	41	40	38	39	38	37	38	37	36
2	41	38	36	34	40	38	35	33	36	34	32	35	33	32	34	32	31
3	38	34	31	29	37	33	31	28	32	30	28	31	29	27	30	28	27
4	35	30	27	25	34	30	27	24	29	26	24	28	26	24	27	25	23
5	32	27	24	21	32	27	24	21	26	23	21	25	23	21	25	22	21
6	30	25	21	19	29	24	21	19	24	21	19	23	20	19	22	20	18
7	28	23	19	17	27	22	19	17	22	19	17	21	19	17	21	18	16
8	26	21	17	15	25	20	17	15	20	17	15	19	17	15	19	17	15
9	24	19	16	14	24	19	16	14	18	16	14	18	15	14	18	15	13
10	23	18	15	13	22	17	14	12	17	14	12	17	14	12	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7802	7802	7802
5°	8007	7892	7780
10°	8236	8053	7842
15°	8354	8163	7805
20°	8234	8057	7444
25°	8033	7977	6950
30°	7406	7853	6245
35°	6738	7909	5809
40°	5700	7867	5231
45°	4388	7838	4578
50°	3823	7926	4290
55°	3191	7934	3859
60°	2010	7663	3458
65°	1560	7703	3186
70°	1402	7239	2831
75°	1336	6217	2601
80°	1195	4886	2337
85°	1111	3280	2116

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	164.9	4.1	1.7
10°-20°	476.6	11.9	4.9
20°-30°	699.2	17.4	7.1
30°-40°	789.5	19.6	8.1
40°-50°	728.7	18.1	7.4
50°-60°	578.0	14.4	5.9
60°-70°	365.1	9.1	3.7
70°-80°	173.1	4.3	1.8
80°-90°	43.2	1.1	0.4
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°	1340.7	33.4	13.7
0°-40°	2130.2	53.0	21.7
0°-60°	3437.0	85.5	35.1
0°-90°	4018.4	100.0	41.0
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°	4018.4	100.0	41.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1692	1692	1692	1692	1692	
5°	1730	1722	1705	1693	1681	166
15°	1750	1744	1710	1659	1635	491
25°	1579	1600	1568	1469	1366	717
35°	1197	1390	1405	1184	1032	739
45°	673	977	1202	848	702	544
55°	397	546	987	581	480	344
65°	143	266	706	337	292	150
75°	75	84	349	158	146	79
85°	21	25	62	40	40	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1692	1692	1692	1692	1692	1692	1692	1692	1692
5°	1730	1726	1722	1716	1705	2000	1693	1685	1681
10°	1759	1755	1749	1733	1720	1702	1689	1679	1675
15°	1750	1750	1744	1730	1710	1682	1659	1641	1635
20°	1678	1678	1684	1669	1642	1599	1563	1532	1517
25°	1579	1586	1600	1598	1568	1517	1469	1401	1366
30°	1391	1432	1491	1504	1475	1408	1324	1209	1173
35°	1197	1256	1390	1430	1405	1326	1184	1066	1032
40°	947	1022	1200	1322	1307	1211	1016	902	869
45°	673	748	977	1199	1202	1077	848	733	702
50°	533	565	787	1079	1105	941	723	624	598
55°	397	438	546	910	987	783	581	501	480
60°	218	279	399	692	831	609	442	385	375
65°	143	150	266	502	706	467	337	300	292
70°	104	109	124	292	537	314	237	215	210
75°	75	79	84	164	349	194	158	147	146
80°	45	48	52	61	184	104	92	88	88
85°	21	22	25	26	62	42	40	40	40
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)