

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. 14779.0

Luminaire Tested: **76PF-1T8-4D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 14779.0
Test Lab: BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 76PF-1T8-4D
Description: 1/32W T8 4'RECESSED PERIMETER LUMINAIRE w/WHITE BACK REFL
WHITE MILAR FRONT REFL w/19-CELL 2.375"OC 1.25"DEEP WHITE
PARAB LOUVER UNIVERSAL #B132IUNVHP-B WATTS=29.3 REFL=88%
Light Source: -
F32T8/835
Ballast/Driver: -

Summary

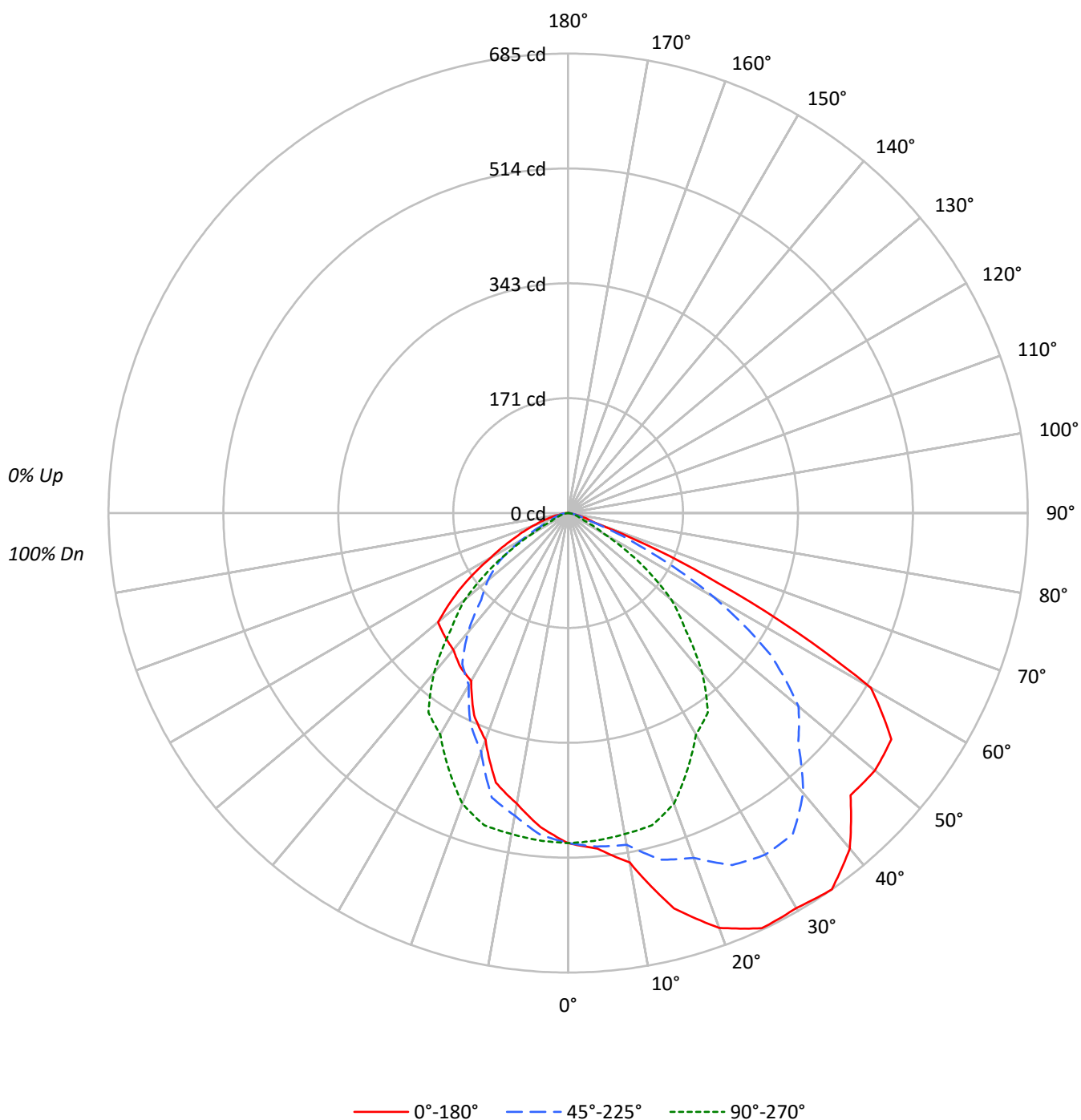
Lumens per Lamp: 2950 (1 lamp)
Luminaire Lumens: 1255.9 lumens
Efficiency: 42.6%
Efficacy: 43.3 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.16 / 1.39
Luminous Opening: Rectangular (W 4.01' x L: 0.65' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	51	51	51	51	50	50	50	50	47	47	47		45	45	45		43
1	47	45	44	43	46	44	43	42	43	42	41		41	40	39		40
2	43	40	38	36	42	40	37	35	38	36	34		37	35	34		35
3	40	36	33	30	39	35	32	30	34	32	30		33	31	29		32
4	37	32	29	26	36	31	28	26	30	28	25		29	27	25		29
5	34	29	25	23	33	28	25	22	27	24	22		27	24	22		26
6	31	26	22	20	30	26	22	20	25	22	20		24	21	19		23
7	29	24	20	18	28	23	20	17	23	20	17		22	19	17		21
8	27	21	18	16	26	21	18	16	21	18	16		20	17	15		20
9	25	20	16	14	25	19	16	14	19	16	14		19	16	14		18
10	24	18	15	13	23	18	15	13	18	15	13		17	15	13		17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2029	2029	2029
5°	2078	2028	1945
10°	2215	2035	1842
15°	2604	2058	1776
20°	2887	2023	1580
25°	3107	1915	1510
30°	3238	1814	1376
35°	3448	1827	1409
40°	3515	1674	1432
45°	3470	1446	1516
50°	3830	1289	1623
55°	4227	956	1409
60°	4296	503	1097
65°	2400	254	859
70°	518	193	663
75°	335	159	478
80°	166	119	285
85°	142	47	378

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	46.5	3.7	1.6
10°-20°	137.2	10.9	4.7
20°-30°	210.7	16.8	7.1
30°-40°	261.0	20.8	8.8
40°-50°	262.6	20.9	8.9
50°-60°	219.6	17.5	7.4
60°-70°	95.2	7.6	3.2
70°-80°	18.6	1.5	0.6
80°-90°	4.5	0.4	0.2
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°	394.5	31.4	13.4
0°-40°	655.5	52.2	22.2
0°-60°	1137.6	90.6	38.6
0°-90°	1255.9	100.0	42.6
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°	1255.9	100.0	42.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	492	492	492	492	492	
5°	502	499	490	481	470	49
15°	610	535	482	439	416	172
25°	683	579	421	345	332	313
35°	685	584	363	275	280	424
45°	595	485	248	183	260	472
55°	588	368	133	125	196	514
65°	246	125	26	39	88	260
75°	21	16	10	16	30	24
85°	3	3	1	7	8	4
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°	492	492	492	492	492	492	492	492	492
5°	502	500	499	495	490	488	481	475	470
10°	529	515	502	495	486	474	458	445	440
15°	610	589	535	499	482	464	439	423	416
20°	658	624	547	460	461	415	379	365	360
25°	683	662	579	455	421	381	345	332	332
30°	680	651	588	446	381	336	296	289	289
35°	685	651	584	451	363	305	275	271	280
40°	653	618	545	422	311	253	232	242	266
45°	595	554	485	370	248	196	183	215	260
50°	597	530	448	323	201	152	156	205	253
55°	588	494	368	237	133	102	125	163	196
60°	521	394	251	124	61	50	79	109	133
65°	246	224	125	46	26	25	39	68	88
70°	43	52	34	25	16	16	23	41	55
75°	21	16	16	12	10	10	16	17	30
80°	7	7	7	7	5	7	10	12	12
85°	3	3	3	3	1	3	7	8	8
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)