

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: BAL 6826

Luminaire Tested: **14-S72PX-4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BAL 6826  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: 14-S72PX-4FT  
Description: 4FT WHITE REFL & BAFFLE  
Light Source: 4-F032T8  
Ballast/Driver: -

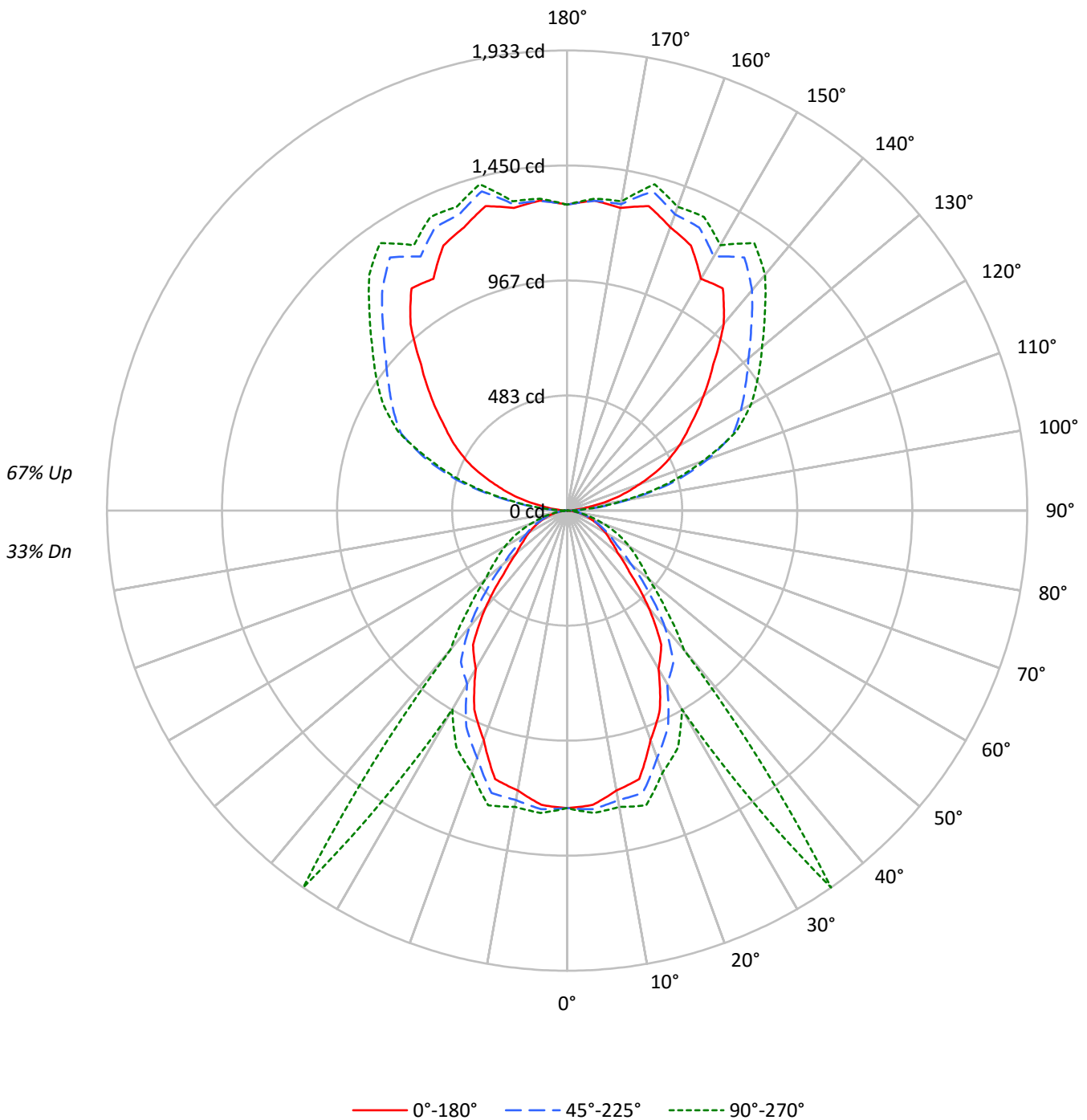
**Summary**

Lumens per Lamp: 2900 (4 lamps)  
Luminaire Lumens: 7077.8 lumens  
Efficiency: 61.0%  
Efficacy: 40.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.55 / 1.15  
Luminous Opening: Rectangular (W 0.42' x L: 3.97' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 176  
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	63	63	63	63	57	57	57	57	45	45	45	35	35	35	25	25	25	20
1	58	55	53	51	52	50	48	46	40	39	38	31	30	29	22	22	22	18
2	53	49	45	42	48	44	41	39	35	33	32	27	26	25	20	19	19	15
3	48	43	39	36	44	39	36	33	32	29	27	25	23	22	18	17	16	13
4	44	38	34	30	40	35	31	28	28	25	23	22	20	19	16	15	14	12
5	41	34	30	26	37	31	27	24	25	23	20	20	18	16	15	14	13	11
6	38	31	26	23	34	28	24	21	23	20	18	18	16	15	14	12	11	9
7	35	28	23	20	31	25	21	19	21	18	16	17	15	13	13	11	10	9
8	32	25	21	18	29	23	19	17	19	16	14	15	13	12	12	10	9	8
9	30	23	19	16	27	21	17	15	18	15	13	14	12	11	11	9	8	7
10	28	21	17	14	26	19	16	13	16	13	11	13	11	10	10	9	8	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8069	8069	8069
5°	8042	8159	8262
10°	7827	8096	8286
15°	7806	8207	8568
20°	7042	7591	8045
25°	6567	7137	7835
30°	5725	6262	7186
35°	5430	6131	15233
40°	4492	5385	6430
45°	3433	4428	5350
50°	2792	3515	4489
55°	2532	2892	4142
60°	2401	2582	3886
65°	2215	2398	3590
70°	2038	2152	3095
75°	1896	2020	2519
80°	1487	1636	1859
85°	1037	1407	1333



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	119.2	1.7	1.0
10°-20°	338.0	4.8	2.9
20°-30°	456.4	6.4	3.9
30°-40°	523.0	7.4	4.5
40°-50°	376.1	5.3	3.2
50°-60°	250.5	3.5	2.2
60°-70°	170.2	2.4	1.5
70°-80°	88.7	1.3	0.8
80°-90°	21.6	0.3	0.2
90°-100°	108.8	1.5	0.9
100°-110°	427.5	6.0	3.7
110°-120°	682.1	9.6	5.9
120°-130°	777.7	11.0	6.7
130°-140°	823.0	11.6	7.1
140°-150°	796.3	11.3	6.9
150°-160°	611.0	8.6	5.3
160°-170°	383.0	5.4	3.3
170°-180°	124.7	1.8	1.1
0°-30°	913.6	12.9	7.9
0°-40°	1436.7	20.3	12.4
0°-60°	2063.3	29.2	17.8
0°-90°	2343.7	33.1	20.2
90°-120°	1218.3	17.2	10.5
90°-150°	3615.4	51.1	31.2
90°-180°	4734.0	66.9	40.8
0°-180°	7077.8	100.0	61.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1241	1250	1259	1276	1275	117
15°	1168	1193	1228	1268	1282	321
25°	922	950	1002	1059	1100	418
35°	689	721	778	878	1933	418
45°	376	403	485	544	586	300
55°	225	228	257	311	368	204
65°	145	147	157	194	235	145
75°	76	77	81	90	101	79
85°	14	16	19	18	18	18
90°	0	0	0	0	0	7
95°	34	92	96	90	88	50
105°	217	415	461	454	436	227
115°	443	627	771	798	782	433
125°	634	762	914	979	979	572
135°	868	963	1093	1162	1174	676
145°	1140	1207	1298	1355	1371	694
155°	1229	1293	1312	1351	1361	559
165°	1324	1374	1388	1415	1419	369
175°	1307	1306	1306	1315	1315	124
180°	1285	1285	1285	1285	1285	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1250	1250	1250	1250	1250
5°	1241	1250	1259	1276	1275
10°	1194	1213	1235	1254	1264
15°	1168	1193	1228	1268	1282
20°	1025	1057	1105	1145	1171
25°	922	950	1002	1059	1100
30°	768	798	840	916	964
35°	689	721	778	878	1933
40°	533	566	639	725	763
45°	376	403	485	544	586
50°	278	295	350	409	447
55°	225	228	257	311	368
60°	186	187	200	252	301
65°	145	147	157	194	235
70°	108	108	114	135	164
75°	76	77	81	90	101
80°	40	43	44	47	50
85°	14	16	19	18	18
90°	0	0	0	0	0
95°	34	92	96	90	88
100°	105	242	257	250	238
105°	217	415	461	454	436
110°	323	529	628	626	605
115°	443	627	771	798	782
120°	542	694	843	895	892
125°	634	762	914	979	979
130°	747	853	994	1063	1068
135°	868	963	1093	1162	1174
140°	1023	1102	1208	1281	1293
145°	1140	1207	1298	1355	1371
150°	1124	1621	1232	1281	1287
155°	1229	1293	1312	1351	1361
160°	1266	1291	1324	1347	1358
165°	1324	1374	1388	1415	1419
170°	1291	1305	1307	1322	1319
175°	1307	1306	1306	1315	1315
180°	1285	1285	1285	1285	1285

(END OF REPORT)