

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: CORELITE

Report Number: 17247

Luminaire Tested: **AP-SP-4T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17247
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AP-SP-4T8
Description: WITH WHITE INTERIOR, SPECULAR REFLECTORS AND WHITE LENS OVER PERF

Light Source: FOUR PHILIPS 32 WATT T8 LAMPS
F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

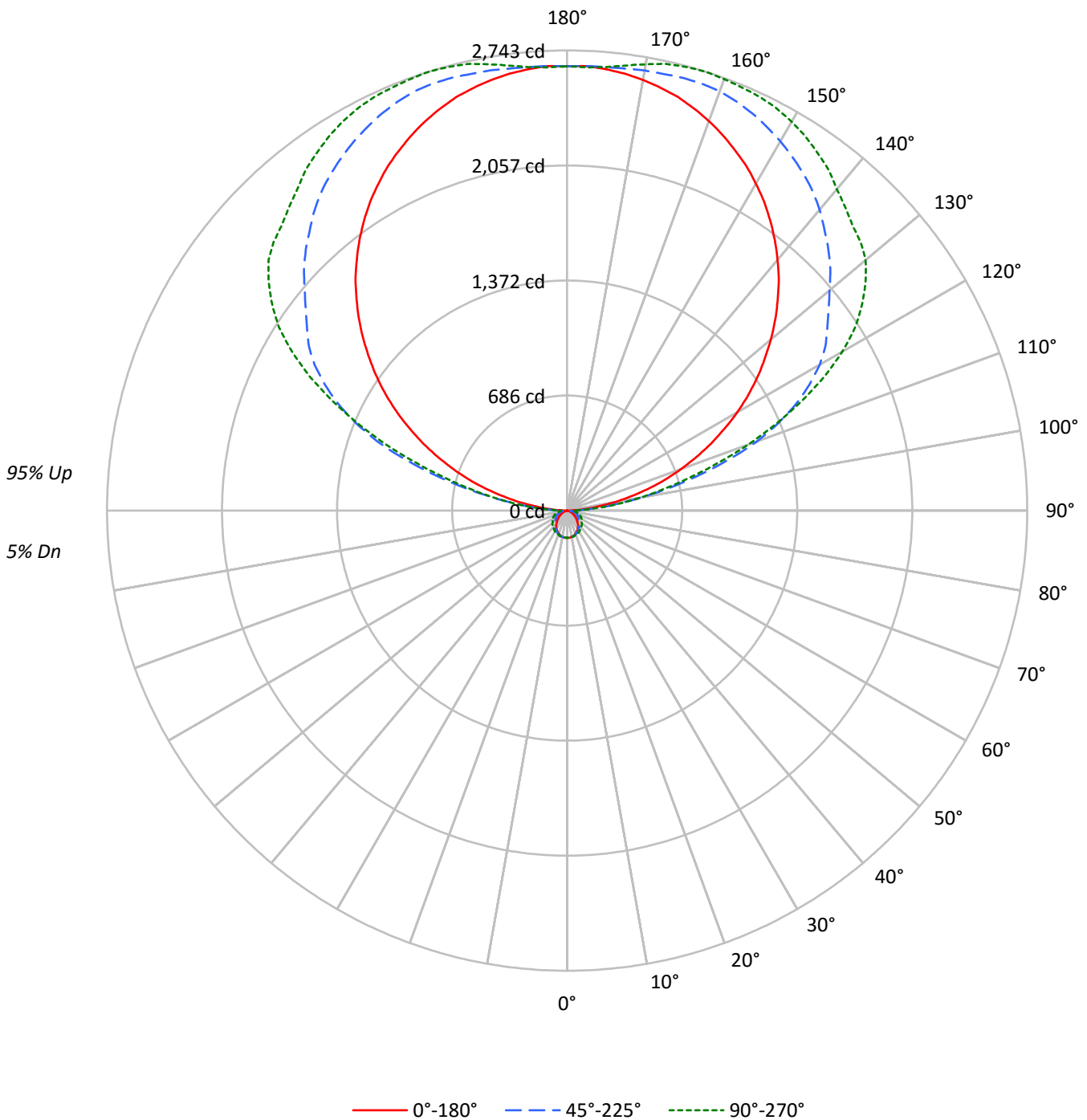
Lumens per Lamp: 3000 (4 lamps)
Luminaire Lumens: 9866.4 lumens
Efficiency: 82.2%
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.3 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 3.67' x H: 0.14')
CIE Type: Indirect

Input Watts (W): 110
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	79	79	79	79	68	68	68	68	48	48	48	29	29	29	12	12	12	4
1	72	69	66	63	62	59	57	55	42	40	39	25	25	24	11	10	10	3
2	65	60	55	51	56	52	48	45	36	34	32	22	21	20	9	9	8	3
3	60	52	47	42	51	45	41	37	32	29	27	20	18	17	8	8	7	2
4	54	46	40	36	47	40	35	31	28	25	23	17	16	14	7	7	6	2
5	50	41	35	30	43	35	30	26	25	22	19	15	14	12	6	6	5	2
6	46	36	30	26	39	32	26	23	22	19	17	14	12	10	6	5	4	1
7	42	33	27	22	36	28	23	20	20	17	14	12	10	9	5	4	4	1
8	39	29	24	19	33	26	21	17	18	15	12	11	9	8	5	4	3	1
9	36	27	21	17	31	23	18	15	16	13	11	10	8	7	4	4	3	1
10	33	24	19	15	29	21	16	13	15	12	10	9	7	6	4	3	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	998	998	998
5°	996	970	965
10°	980	939	945
15°	966	938	933
20°	934	892	891
25°	908	862	890
30°	876	835	873
35°	819	778	849
40°	738	752	841
45°	697	710	822
50°	633	678	795
55°	545	650	803
60°	483	643	810
65°	410	655	810
70°	306	629	806
75°	277	621	787
80°	104	554	750
85°	103	482	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	15.3	0.2	0.1
10°-20°	43.8	0.4	0.4
20°-30°	65.1	0.7	0.5
30°-40°	77.1	0.8	0.6
40°-50°	78.8	0.8	0.7
50°-60°	72.9	0.7	0.6
60°-70°	61.9	0.6	0.5
70°-80°	46.9	0.5	0.4
80°-90°	27.0	0.3	0.2
90°-100°	206.4	2.1	1.7
100°-110°	789.6	8.0	6.6
110°-120°	1360.8	13.8	11.3
120°-130°	1649.5	16.7	13.7
130°-140°	1666.4	16.9	13.9
140°-150°	1510.8	15.3	12.6
150°-160°	1190.0	12.1	9.9
160°-170°	750.9	7.6	6.3
170°-180°	253.2	2.6	2.1
0°-30°	124.2	1.3	1.0
0°-40°	201.3	2.0	1.7
0°-60°	353.0	3.6	2.9
0°-90°	488.7	5.0	4.1
90°-120°	2356.8	23.9	19.6
90°-150°	7183.5	72.8	59.9
90°-180°	9378.0	95.1	78.2
0°-180°	9866.4	100.0	82.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	163	163	163	163	163	
5°	163	160	161	161	161	15
15°	154	153	158	158	159	43
25°	137	137	142	143	150	63
35°	113	113	121	132	137	70
45°	84	87	101	116	123	64
55°	54	61	81	100	107	49
65°	31	40	68	84	91	30
75°	13	25	49	64	70	14
85°	2	13	25	39	44	2
90°	0	6	18	28	36	4
95°	100	158	173	185	186	120
105°	498	790	814	764	751	527
115°	947	1219	1507	1565	1540	936
125°	1383	1605	1892	2072	2148	1235
135°	1775	1986	2203	2349	2405	1369
145°	2110	2293	2454	2581	2602	1320
155°	2369	2467	2612	2690	2720	1093
165°	2552	2585	2670	2724	2738	720
175°	2641	2645	2654	2651	2654	251
180°	2648	2648	2648	2648	2648	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	163.3	163.3	163.3	163.3	163.3
2.5°	161.8	160.2	161.4	160.2	161.4
5°	163.0	160.2	161.4	161.4	161.4
7.5°	160.2	160.2	161.4	158.6	160.2
10°	159.0	158.6	157.5	160.2	160.2
12.5°	157.5	155.9	157.5	159.0	160.2
15°	154.3	152.8	157.5	157.5	159.0
17.5°	150.4	148.8	153.1	154.3	154.7
20°	145.7	147.3	148.8	150.0	151.6
22.5°	140.2	142.9	144.5	147.3	150.0
25°	137.1	137.1	141.8	142.9	150.0
27.5°	132.7	130.0	138.6	138.6	147.3
30°	126.9	128.4	134.3	137.1	144.5
32.5°	119.8	119.8	127.2	135.5	138.6
35°	112.7	112.7	121.4	131.6	137.1
37.5°	107.2	107.2	120.2	126.9	131.6
40°	95.5	102.5	112.7	122.9	131.2
42.5°	91.1	92.3	108.4	118.6	125.7
45°	83.7	86.8	101.3	115.9	122.9
47.5°	75.1	83.7	98.2	109.6	119.8
50°	69.6	76.6	91.1	107.2	112.7
52.5°	62.5	68.0	90.0	101.0	106.8
55°	53.9	60.9	81.3	99.8	106.8
57.5°	48.0	58.2	79.8	95.5	105.7
60°	42.1	50.7	73.9	91.1	99.8
62.5°	33.5	43.7	71.1	88.4	93.9
65°	30.7	40.5	68.0	84.1	91.1
67.5°	24.8	35.0	62.5	76.6	84.1
70°	18.9	31.9	57.8	73.9	81.3
72.5°	17.8	28.0	52.3	69.6	76.6
75°	13.4	24.8	49.2	64.1	69.6
77.5°	9.1	23.7	42.1	55.0	65.2
80°	3.6	20.5	36.6	50.7	56.6
82.5°	2.1	16.2	29.1	43.7	49.6
85°	2.1	13.4	25.2	39.3	43.7
87.5°	0.5	6.0	17.8	33.5	37.8
90°	0.5	6.0	18.2	27.6	36.2
92.5°	30.7	60.9	77.0	84.1	88.4
95°	99.8	157.5	173.2	184.9	186.1
97.5°	184.5	308.1	299.5	303.8	305.4
100°	285.0	528.3	449.4	470.6	436.1
102.5°	387.4	608.7	623.2	544.0	585.6
105°	498.1	789.6	814.0	764.1	750.8
107.5°	611.5	914.8	1011.3	965.0	940.7
110°	720.6	1012.5	1202.0	1159.3	1145.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	832.8	1108.6	1361.7	1370.4	1344.5
115°	946.6	1219.3	1506.9	1564.6	1539.9
117.5°	1056.8	1326.0	1629.0	1734.1	1728.3
120°	1170.6	1433.9	1738.5	1883.6	1893.8
122.5°	1278.6	1563.0	1826.0	2027.3	2037.5
125°	1383.3	1604.6	1892.3	2072.0	2148.1
127.5°	1484.2	1721.2	1962.9	2190.9	2243.1
130°	1584.6	1810.3	2041.8	2251.7	2323.1
132.5°	1682.3	1900.5	2128.1	2297.6	2372.2
135°	1774.6	1985.7	2202.7	2349.4	2405.1
137.5°	1867.6	2060.2	2270.2	2402.4	2453.0
140°	1951.1	2139.5	2342.0	2462.8	2501.7
142.5°	2033.1	2210.1	2402.4	2518.9	2560.5
145°	2110.5	2292.9	2454.2	2580.6	2602.1
147.5°	2184.2	2318.8	2498.9	2599.4	2643.7
150°	2250.1	2385.1	2542.1	2643.7	2677.1
152.5°	2314.9	2429.9	2578.2	2666.9	2703.0
155°	2369.4	2467.1	2612.3	2690.0	2720.2
157.5°	2422.4	2501.7	2638.2	2705.7	2728.5
160°	2471.5	2530.7	2659.8	2717.1	2737.1
162.5°	2513.4	2559.4	2668.1	2726.1	2743.0
165°	2551.9	2585.3	2669.6	2724.2	2737.5
167.5°	2580.9	2609.6	2665.7	2704.5	2727.3
170°	2606.4	2615.1	2663.7	2692.8	2701.4
172.5°	2626.9	2636.7	2657.1	2668.4	2675.5
175°	2641.0	2645.3	2653.9	2650.8	2653.9
177.5°	2652.4	2651.2	2652.4	2645.3	2643.7
180°	2648.1	2648.1	2648.1	2648.1	2648.1

(END OF REPORT)