

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: 17246

Luminaire Tested: **AP-SP-3T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17246
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AP-SP-3T5
Description: WHITE INTERIOR WITH SPECULAR REFLECTORS AND WHITE LENS OVER PERFORATIONS
Light Source: THREE SYLVANIA 54 WATT T5 LAMPS
FP54/841/HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

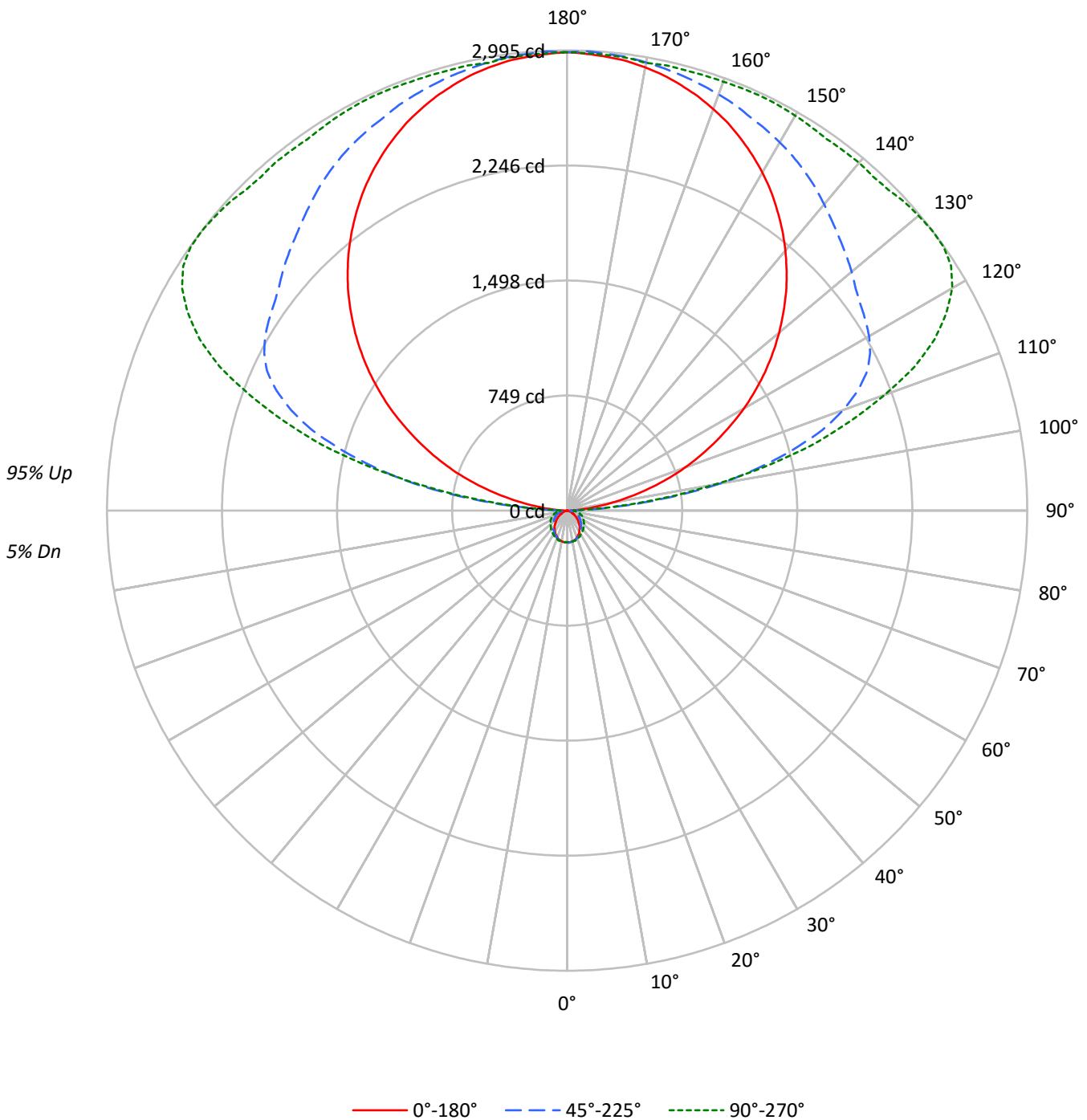
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 12454.8 lumens
Efficiency: 92.3%
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.29 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 3.67' x H: 0.14')
CIE Type: Indirect

Input Watts (W): 180
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	89	89	89	89	77	77	77	77	54	54	54	33	33	33	14	14	14	5
1	81	77	74	71	69	66	64	61	47	45	44	29	28	27	12	11	11	4
2	73	67	62	57	63	58	54	50	41	38	36	25	24	22	10	10	9	3
3	67	59	53	48	57	51	46	42	36	33	30	22	20	19	9	8	8	2
4	61	52	45	40	52	45	39	35	32	28	25	19	17	16	8	7	7	2
5	56	46	39	34	48	40	34	30	28	24	22	17	15	14	7	6	6	2
6	51	41	34	29	44	35	30	26	25	21	19	15	13	12	6	6	5	2
7	47	37	30	25	40	32	26	22	23	19	16	14	12	10	6	5	4	1
8	43	33	26	22	37	29	23	19	20	17	14	13	10	9	5	4	4	1
9	40	30	23	19	35	26	21	17	18	15	12	11	9	8	5	4	3	1
10	37	27	21	17	32	24	18	15	17	13	11	10	8	7	4	4	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1260	1260	1260
5°	1273	1251	1237
10°	1257	1218	1203
15°	1230	1184	1190
20°	1192	1139	1132
25°	1146	1091	1119
30°	1103	1043	1075
35°	1040	993	1039
40°	963	962	1040
45°	866	891	1008
50°	790	858	1007
55°	706	828	988
60°	589	800	1004
65°	516	776	992
70°	456	776	1031
75°	341	702	982
80°	139	659	945
85°	24	560	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	19.6	0.2	0.1
10°-20°	55.7	0.4	0.4
20°-30°	82.5	0.7	0.6
30°-40°	96.8	0.8	0.7
40°-50°	99.1	0.8	0.7
50°-60°	91.5	0.7	0.7
60°-70°	77.5	0.6	0.6
70°-80°	57.3	0.5	0.4
80°-90°	32.8	0.3	0.2
90°-100°	400.4	3.2	3.0
100°-110°	1385.5	11.1	10.3
110°-120°	1961.8	15.8	14.5
120°-130°	2068.1	16.6	15.3
130°-140°	1931.5	15.5	14.3
140°-150°	1679.5	13.5	12.4
150°-160°	1305.1	10.5	9.7
160°-170°	826.7	6.6	6.1
170°-180°	283.4	2.3	2.1
0°-30°	157.8	1.3	1.2
0°-40°	254.6	2.0	1.9
0°-60°	445.1	3.6	3.3
0°-90°	612.7	4.9	4.5
90°-120°	3747.7	30.1	27.8
90°-150°	9426.9	75.7	69.8
90°-180°	11842.0	95.1	87.7
0°-180°	12454.8	100.0	92.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	206	206	206	206	206	
5°	208	204	208	205	207	20
15°	196	194	199	200	203	55
25°	173	174	179	185	189	80
35°	143	144	155	165	168	89
45°	104	110	127	144	151	81
55°	70	78	104	125	131	62
65°	39	53	80	104	112	37
75°	16	31	56	78	87	17
85°	0	14	29	49	54	1
90°	0	7	22	35	42	5
95°	98	368	384	342	338	124
105°	548	1124	1513	1621	1653	583
115°	1071	1455	2157	2522	2639	1059
125°	1572	1793	2331	2813	2991	1404
135°	2016	2167	2506	2821	2954	1553
145°	2385	2489	2695	2881	2950	1492
155°	2672	2716	2824	2935	2978	1232
165°	2867	2890	2927	2954	2967	809
175°	2965	2973	2983	2979	2976	282
180°	2983	2983	2983	2983	2983	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	206.2	206.2	206.2	206.2	206.2
2.5°	206.8	205.4	210.7	209.6	203.9
5°	208.2	203.9	208.2	205.4	206.8
7.5°	204.3	203.9	205.4	203.9	204.3
10°	203.9	200.4	204.3	204.3	203.9
12.5°	198.9	198.9	201.4	201.4	201.8
15°	196.5	194.0	198.9	200.4	202.9
17.5°	192.5	191.1	193.6	196.1	200.4
20°	185.8	183.3	190.1	191.1	192.5
22.5°	179.4	179.4	185.8	185.8	191.1
25°	173.0	174.1	179.4	184.7	188.6
27.5°	167.7	166.6	171.6	179.4	184.4
30°	159.8	159.8	167.7	175.5	178.0
32.5°	149.5	152.0	158.4	168.7	175.5
35°	143.1	144.2	154.8	164.8	167.7
37.5°	133.9	137.4	146.7	157.0	166.2
40°	124.6	130.0	144.2	154.5	162.3
42.5°	114.0	118.2	134.9	150.6	157.3
45°	104.0	110.4	127.1	144.2	150.6
47.5°	97.2	104.0	123.2	140.3	144.2
50°	86.9	94.7	115.4	134.9	142.8
52.5°	77.7	88.3	110.4	130.0	139.2
55°	69.9	77.7	103.6	124.6	131.4
57.5°	59.2	73.8	96.2	119.3	127.1
60°	51.4	64.5	91.9	114.3	123.6
62.5°	43.5	60.6	86.9	109.0	117.9
65°	38.6	52.8	80.5	103.6	111.5
67.5°	29.3	46.4	75.2	98.7	109.0
70°	28.2	37.1	71.3	91.9	104.0
72.5°	20.4	33.2	63.4	85.5	91.9
75°	16.5	30.7	55.6	77.7	86.9
77.5°	11.2	28.2	51.4	69.9	81.6
80°	4.8	22.9	43.5	64.5	71.3
82.5°	1.9	17.6	38.6	56.7	63.4
85°	0.5	14.0	29.3	48.9	54.2
87.5°	0.5	6.2	21.5	37.5	47.8
90°	0.5	6.9	21.5	35.4	42.5
92.5°	33.2	123.6	119.3	102.2	80.2
95°	98.3	368.2	383.9	342.3	338.0
97.5°	189.7	604.0	684.8	651.0	648.1
100°	303.2	835.9	1009.1	1065.3	972.5
102.5°	421.6	927.0	1272.3	1225.3	1315.3
105°	547.8	1123.6	1513.4	1621.2	1652.8
107.5°	683.3	1221.4	1741.0	1885.8	1928.8
110°	814.9	1295.8	1912.1	2137.6	2197.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	941.2	1372.6	2050.1	2356.3	2447.3
115°	1070.6	1454.7	2156.8	2521.7	2639.0
117.5°	1198.0	1540.4	2223.3	2651.8	2782.4
120°	1329.5	1626.9	2269.2	2745.7	2894.4
122.5°	1450.5	1749.2	2302.9	2801.9	2963.0
125°	1572.1	1793.3	2331.4	2813.3	2990.8
127.5°	1688.0	1910.7	2367.7	2824.0	2994.7
130°	1801.1	1999.2	2417.5	2818.6	2985.4
132.5°	1909.2	2082.8	2463.0	2814.7	2975.1
135°	2016.3	2167.1	2506.0	2821.1	2954.1
137.5°	2114.1	2246.8	2553.0	2837.8	2947.7
140°	2210.5	2326.1	2602.4	2849.9	2955.6
142.5°	2300.1	2401.8	2651.8	2858.8	2952.7
145°	2384.7	2488.9	2694.9	2881.2	2950.2
147.5°	2466.9	2522.7	2734.0	2887.6	2959.1
150°	2541.2	2603.5	2767.8	2912.5	2968.4
152.5°	2609.9	2663.6	2798.0	2923.9	2975.1
155°	2672.5	2715.8	2824.0	2934.6	2977.6
157.5°	2731.5	2766.4	2857.8	2937.1	2975.1
160°	2780.9	2813.7	2882.3	2942.4	2970.8
162.5°	2827.9	2853.8	2905.8	2950.2	2969.8
165°	2866.6	2890.5	2926.7	2954.1	2967.3
167.5°	2901.9	2924.3	2945.2	2963.4	2968.7
170°	2928.2	2937.1	2962.0	2964.8	2958.0
172.5°	2951.6	2959.5	2977.6	2972.6	2972.3
175°	2964.8	2972.6	2982.6	2979.0	2976.2
177.5°	2975.1	2981.5	2991.8	2981.5	2980.1
180°	2983.2	2983.2	2983.2	2983.2	2983.2

(END OF REPORT)