

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: 89172

Luminaire Tested: **E2-SB-3T5-UXU-3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89172
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-UXU-3
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER
BLADE
WITH LAMP ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

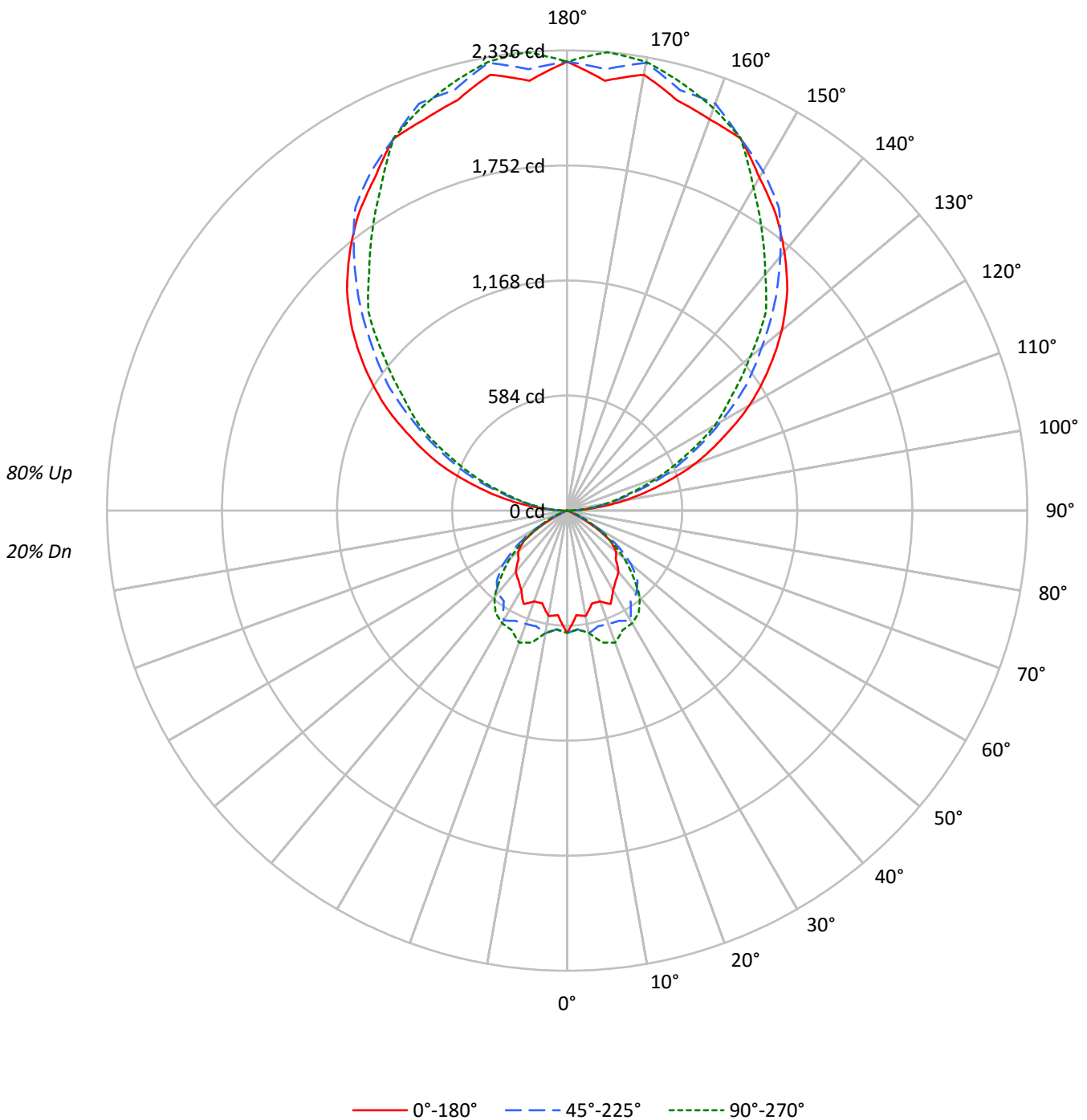
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 7962.7 lumens
Efficiency: 59.0%
Efficacy: 45.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.51 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Indirect

Input Watts (W): 177
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	59	59	59	59	52	52	52	52	39	39	39	28	28	28	17	17	17	12																			
1	54	52	50	48	48	46	44	42	35	34	33	25	24	23	15	15	15	10																			
2	49	45	42	39	43	40	37	35	31	29	27	22	21	20	14	13	13	9																			
3	45	40	36	33	40	35	32	29	27	25	23	19	18	17	12	11	11	8																			
4	41	35	31	28	36	31	28	25	24	22	20	17	16	14	11	10	9	7																			
5	38	31	27	24	33	28	24	21	21	19	17	15	14	13	10	9	8	6																			
6	35	28	24	20	31	25	21	18	19	17	15	14	12	11	9	8	7	5																			
7	32	25	21	18	28	22	19	16	17	15	13	13	11	10	8	7	6	5																			
8	30	23	18	16	26	20	17	14	16	13	11	11	10	8	7	6	6	4																			
9	27	21	16	14	24	18	15	12	14	12	10	10	9	8	7	6	5	4																			
10	26	19	15	12	23	17	13	11	13	11	9	10	8	7	6	5	5	3																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2894	2894	2894
5°	2474	2719	2700
10°	2535	2763	2702
15°	2301	2609	2898
20°	2363	2596	2924
25°	2591	2612	2711
30°	2393	2729	2667
35°	2322	2408	2567
40°	2307	2394	2354
45°	2126	2270	1977
50°	2145	1970	1628
55°	1940	1528	1207
60°	1170	928	781
65°	282	340	425
70°	78	100	88
75°	39	62	31
80°	16	41	16
85°	8	18	3



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	57.0	0.7	0.4
10°-20°	174.3	2.2	1.3
20°-30°	282.7	3.6	2.1
30°-40°	352.3	4.4	2.6
40°-50°	358.0	4.5	2.7
50°-60°	260.0	3.3	1.9
60°-70°	76.8	1.0	0.6
70°-80°	8.9	0.1	0.1
80°-90°	4.3	0.1	0.0
90°-100°	116.6	1.5	0.9
100°-110°	405.5	5.1	3.0
110°-120°	740.4	9.3	5.5
120°-130°	1013.7	12.7	7.5
130°-140°	1159.8	14.6	8.6
140°-150°	1142.5	14.3	8.5
150°-160°	964.3	12.1	7.1
160°-170°	628.4	7.9	4.7
170°-180°	217.0	2.7	1.6
0°-30°	514.0	6.5	3.8
0°-40°	866.3	10.9	6.4
0°-60°	1484.3	18.6	11.0
0°-90°	1574.4	19.8	11.7
90°-120°	1262.6	15.9	9.4
90°-150°	4578.7	57.5	33.9
90°-180°	6388.0	80.2	47.3
0°-180°	7962.7	100.0	59.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	621	621	621	621	621	
5°	532	585	605	569	606	52
15°	487	615	608	661	693	142
25°	523	593	618	659	668	231
35°	432	536	561	605	633	272
45°	349	468	505	484	473	276
55°	267	347	313	274	271	223
65°	30	44	62	80	86	52
75°	3	6	9	9	5	4
85°	0	1	2	2	0	1
90°	10	9	10	10	11	19
95°	121	99	92	90	95	148
105°	478	430	346	344	316	512
115°	870	830	706	684	666	866
125°	1248	1234	1108	1056	1021	1116
135°	1581	1624	1490	1409	1428	1217
145°	1844	1913	1876	1736	1725	1153
155°	2084	2118	2083	2117	2084	951
165°	2156	2226	2210	2213	2247	613
175°	2190	2312	2249	2274	2336	212
180°	2279	2279	2279	2279	2279	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	620.8	620.8	620.8	620.8	620.8
5°	532.4	585.1	604.6	568.7	606.0
10°	543.2	570.0	631.6	649.9	628.8
15°	487.2	615.1	607.9	661.4	693.2
20°	490.6	554.3	611.9	682.5	712.9
25°	523.0	593.1	618.1	658.9	668.5
30°	465.6	544.2	643.3	644.5	660.2
35°	431.5	536.3	561.0	604.9	632.9
40°	405.3	507.7	547.0	582.4	573.8
45°	349.1	467.5	504.6	484.3	472.7
50°	324.8	412.7	422.5	372.7	378.7
55°	266.8	347.1	313.1	273.7	270.7
60°	143.4	202.7	179.8	160.6	167.4
65°	30.1	44.4	61.6	80.0	86.1
70°	7.0	11.0	16.8	25.2	16.7
75°	2.8	5.5	9.4	8.9	5.4
80°	0.9	2.8	5.6	4.5	2.5
85°	0.3	1.0	2.1	1.5	0.4
90°	9.5	9.3	9.6	9.6	11.2
95°	121.3	99.3	92.4	89.8	94.8
100°	296.6	242.6	207.0	197.9	200.2
105°	478.2	429.7	346.2	344.5	315.7
110°	688.4	602.2	531.5	494.5	491.6
115°	870.1	830.1	705.7	684.1	665.6
120°	1068.9	1050.1	897.7	857.5	866.9
125°	1248.3	1234.5	1108.3	1056.3	1021.0
130°	1421.9	1432.9	1289.2	1244.6	1212.4
135°	1580.8	1624.4	1490.0	1409.1	1427.5
140°	1715.8	1758.2	1683.1	1602.7	1564.2
145°	1843.5	1913.4	1875.8	1735.6	1725.3
150°	1951.8	1988.2	1988.8	1971.8	1891.7
155°	2084.2	2117.6	2083.3	2116.6	2084.5
160°	2113.7	2206.4	2198.2	2191.2	2173.4
165°	2156.5	2225.8	2210.5	2213.0	2247.1
170°	2246.6	2180.5	2307.8	2314.7	2312.9
175°	2190.3	2312.5	2248.7	2273.7	2336.0
180°	2278.7	2278.7	2278.7	2278.7	2278.7

(END OF REPORT)