

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: 89160

Luminaire Tested: **E2-SH-3T5-XUX-3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89160
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-3T5-XUX-3
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 38 CELL HI PERFORMANCE LOUVER
BLADE
WITH LAMP ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

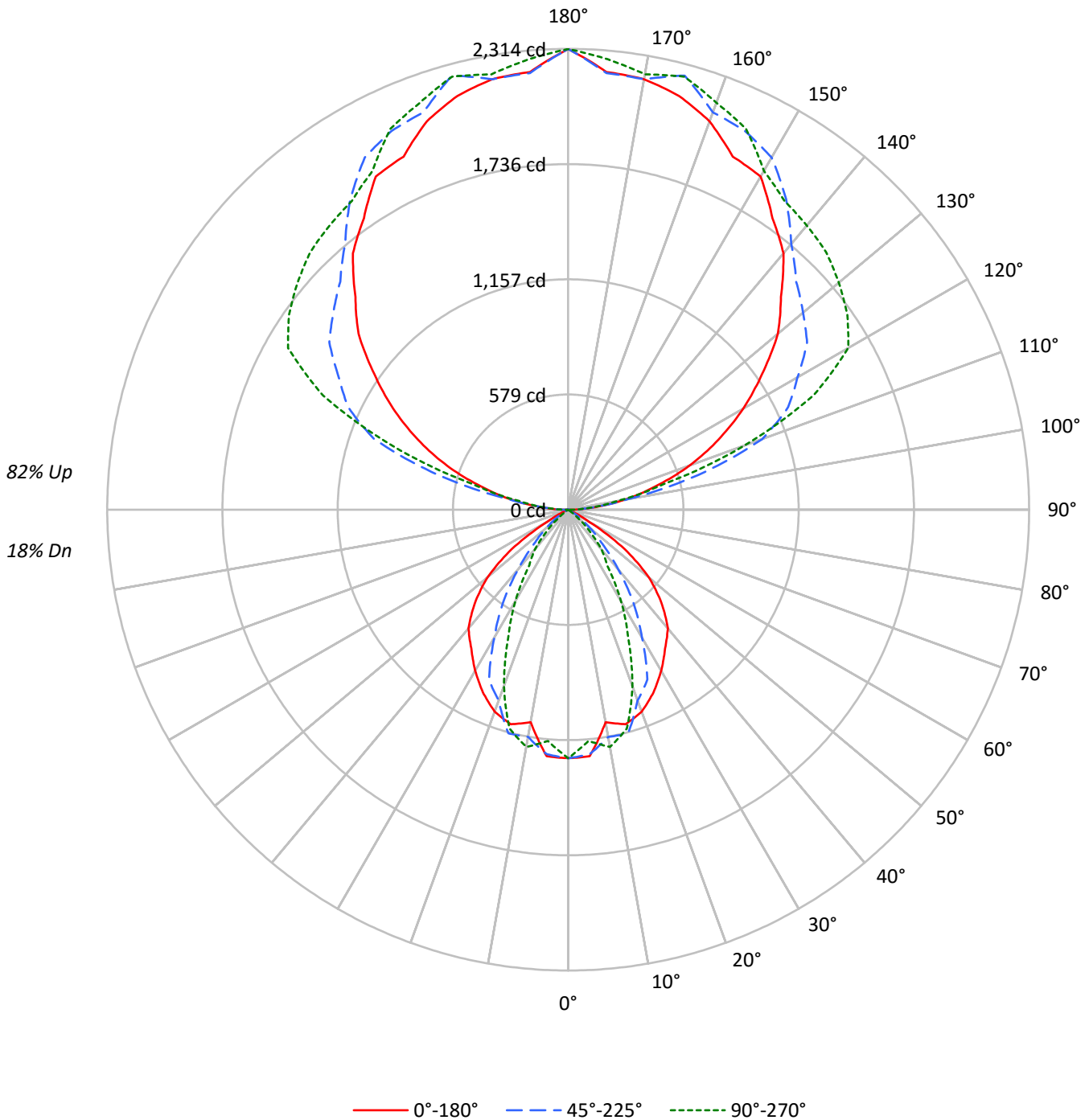
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 9053.3 lumens
Efficiency: 67.1%
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 0.85 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Indirect

Input Watts (W): 177
Input Voltage (V): NR
Input Current (A_{in}): 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	67	67	67	67	59	59	59	59	44	44	44	30	30	30	18	18	18	12
1	61	59	56	54	54	52	50	48	39	38	37	27	27	26	16	16	16	11
2	56	52	48	45	49	46	43	40	35	33	31	24	23	22	15	14	14	10
3	51	46	41	38	45	41	37	34	31	29	27	22	21	19	14	13	12	9
4	47	41	36	32	42	36	32	29	28	25	23	20	18	17	13	12	11	8
5	43	36	31	28	38	32	28	25	25	22	20	18	16	15	11	11	10	7
6	40	33	28	24	35	29	25	22	23	20	18	16	15	13	11	10	9	7
7	37	30	25	21	33	26	22	19	21	18	16	15	13	12	10	9	8	6
8	34	27	22	19	30	24	20	17	19	16	14	14	12	11	9	8	7	6
9	32	24	20	17	28	22	18	15	17	14	12	13	11	10	8	7	7	5
10	30	22	18	15	26	20	16	14	16	13	11	12	10	9	8	7	6	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5870	5870	5870
5°	5826	5593	5241
10°	5100	5113	5243
15°	5312	5033	4800
20°	5242	4361	3904
25°	5059	4012	2919
30°	4837	3171	2169
35°	4603	2470	1390
40°	4466	1730	1071
45°	4070	1095	628
50°	3523	669	253
55°	2546	342	42
60°	993	119	8
65°	234	28	3
70°	86	17	1
75°	43	14	1
80°	31	8	1
85°	14	4	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	112.7	1.2	0.8
10°-20°	316.6	3.5	2.3
20°-30°	413.0	4.6	3.1
30°-40°	377.8	4.2	2.8
40°-50°	259.2	2.9	1.9
50°-60°	108.5	1.2	0.8
60°-70°	14.8	0.2	0.1
70°-80°	2.2	0.0	0.0
80°-90°	3.6	0.0	0.0
90°-100°	151.5	1.7	1.1
100°-110°	624.5	6.9	4.6
110°-120°	1123.2	12.4	8.3
120°-130°	1300.4	14.4	9.6
130°-140°	1286.3	14.2	9.5
140°-150°	1171.5	12.9	8.7
150°-160°	957.5	10.6	7.1
160°-170°	618.6	6.8	4.6
170°-180°	211.4	2.3	1.6
0°-30°	842.3	9.3	6.2
0°-40°	1220.2	13.5	9.0
0°-60°	1587.9	17.5	11.8
0°-90°	1608.5	17.8	11.9
90°-120°	1899.2	21.0	14.1
90°-150°	5657.4	62.5	41.9
90°-180°	7445.0	82.2	55.1
0°-180°	9053.3	100.0	67.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1243	1129	1233	1183	1166	113
15°	1115	1185	1163	1129	1138	311
25°	1012	1049	941	765	713	466
35°	848	850	571	391	340	534
45°	663	507	241	173	149	508
55°	347	194	69	22	9	299
65°	25	16	5	1	1	44
75°	3	4	2	0	0	4
85°	0	1	0	0	0	1
90°	9	12	11	11	12	19
95°	122	142	108	101	105	144
105°	454	627	676	529	495	486
115°	832	942	1218	1359	1358	823
125°	1188	1269	1464	1631	1710	1066
135°	1510	1619	1619	1735	1831	1174
145°	1788	1834	1906	1873	1893	1126
155°	1956	2054	2098	2154	2111	915
165°	2151	2152	2257	2177	2251	606
175°	2207	2166	2200	2117	2270	211
180°	2314	2314	2314	2314	2314	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.8	1247.8	1247.8	1247.8	1247.8
5°	1242.7	1128.7	1232.7	1182.6	1165.8
10°	1083.3	1154.4	1158.5	1142.1	1209.1
15°	1115.1	1184.7	1162.6	1129.2	1137.8
20°	1078.8	1112.9	1019.1	995.2	943.4
25°	1012.5	1048.6	941.0	764.9	713.4
30°	933.3	959.4	741.0	576.3	532.1
35°	848.2	849.5	570.6	391.1	339.7
40°	778.0	699.0	392.0	264.7	258.7
45°	662.7	507.3	241.4	172.6	148.9
50°	529.2	354.4	142.2	80.8	58.2
55°	347.3	194.4	69.4	21.5	9.4
60°	120.8	72.1	22.8	3.0	1.6
65°	24.8	15.7	5.1	1.0	0.6
70°	7.7	6.3	2.9	0.7	0.2
75°	3.1	3.5	2.1	0.2	0.1
80°	1.7	2.0	1.1	0.2	0.1
85°	0.5	1.1	0.5	0.0	0.0
90°	8.9	11.7	10.9	11.1	11.9
95°	121.9	142.2	107.5	101.4	105.4
100°	287.4	409.0	302.2	272.1	250.0
105°	453.5	626.9	676.1	529.0	494.7
110°	647.3	796.2	1036.4	982.3	940.1
115°	831.9	941.6	1218.4	1359.4	1357.8
120°	1013.7	1133.6	1329.2	1521.1	1623.1
125°	1188.2	1268.7	1463.7	1631.1	1710.0
130°	1374.3	1450.7	1538.9	1730.0	1773.3
135°	1510.3	1618.9	1618.6	1735.1	1830.7
140°	1681.2	1742.7	1742.3	1770.1	1863.1
145°	1787.6	1834.3	1905.8	1872.6	1892.6
150°	1932.0	1971.1	2042.0	2002.9	1964.6
155°	1956.2	2054.0	2098.1	2154.1	2110.6
160°	2075.0	2119.3	2123.2	2136.8	2175.2
165°	2151.3	2151.5	2257.0	2176.8	2251.2
170°	2195.0	2238.6	2194.3	2265.0	2220.0
175°	2206.6	2165.7	2200.5	2116.8	2270.4
180°	2313.5	2313.5	2313.5	2313.5	2313.5

(END OF REPORT)