

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: 89177

Luminaire Tested: **E2-SB-3T5-XUX-2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89177
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-XUX-2
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

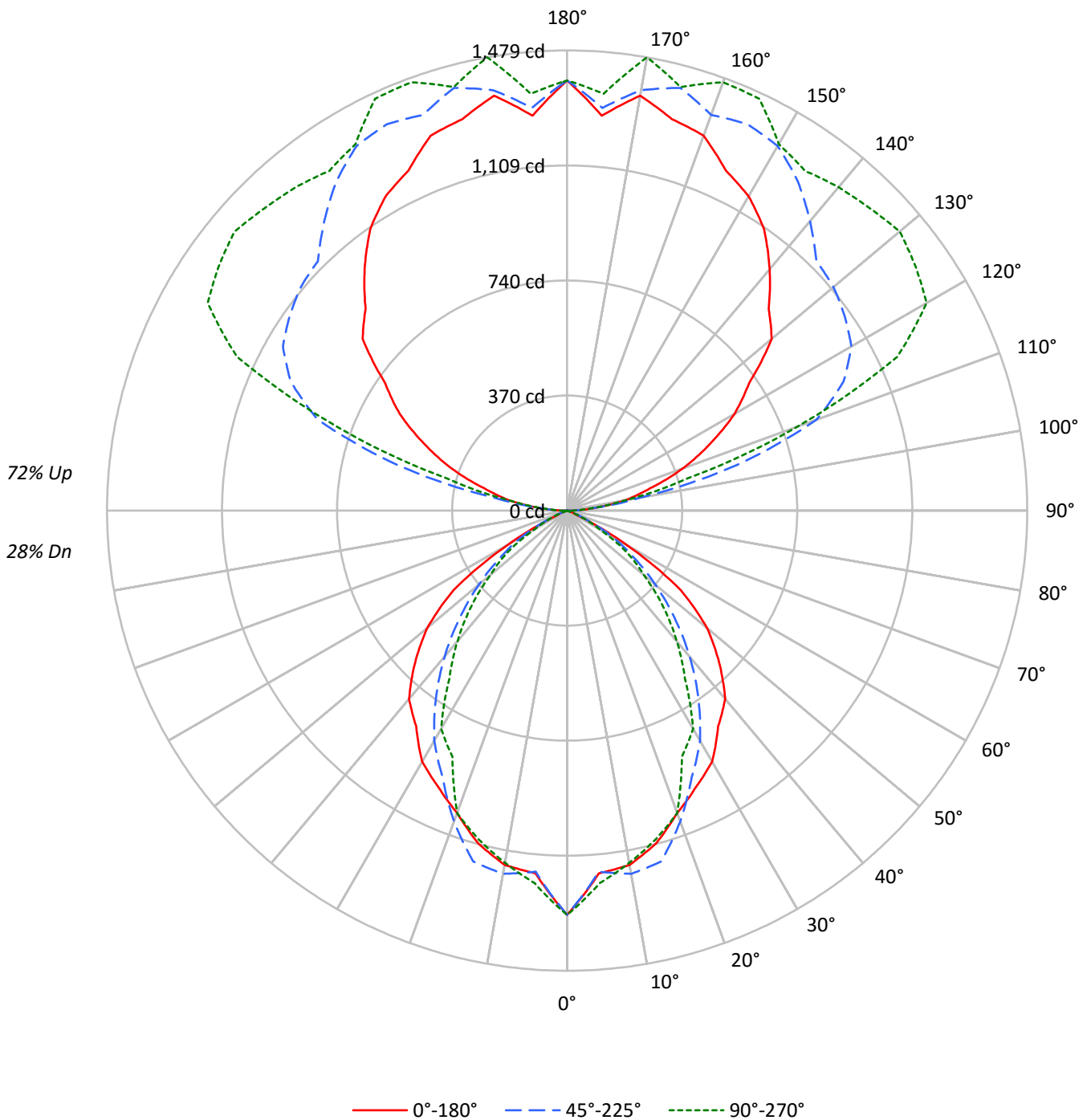
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 7366.0 lumens
Efficiency: 81.8%
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 0.93 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Indirect

Input Watts (W): 118
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	83	83	83	83	75	75	75	75	58	58	58	43	43	43	30	30	30	23
1	77	74	71	68	69	66	64	62	52	50	49	39	38	37	27	27	26	21
2	70	65	60	57	63	58	55	52	46	44	42	35	34	32	25	24	23	19
3	65	58	52	48	58	52	47	44	41	38	36	32	30	28	22	21	20	16
4	59	51	45	41	53	46	41	37	37	34	31	28	26	24	20	19	18	15
5	54	46	40	35	49	41	36	32	33	30	27	26	23	21	19	17	16	13
6	50	41	35	31	45	37	32	28	30	26	23	23	21	19	17	15	14	12
7	46	37	31	27	42	34	29	25	27	24	21	21	19	17	16	14	13	11
8	43	34	28	24	39	31	26	22	25	21	19	20	17	15	14	13	12	10
9	40	31	25	21	36	28	23	20	23	19	17	18	15	14	13	12	11	9
10	37	28	23	19	34	26	21	18	21	17	15	17	14	12	12	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6059	6059	6059
5°	5438	5238	5356
10°	5395	5185	4941
15°	5227	5010	4578
20°	4982	4510	4243
25°	4856	4002	3539
30°	4789	3623	3271
35°	4554	3156	2678
40°	4498	2681	2250
45°	4211	2196	1826
50°	3876	1728	1383
55°	3245	1265	1051
60°	1792	856	563
65°	327	344	275
70°	90	93	45
75°	50	45	15
80°	24	32	7
85°	11	13	2



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	111.9	1.5	1.2
10°-20°	315.9	4.3	3.5
20°-30°	440.1	6.0	4.9
30°-40°	472.1	6.4	5.2
40°-50°	407.9	5.5	4.5
50°-60°	261.6	3.6	2.9
60°-70°	69.0	0.9	0.8
70°-80°	6.9	0.1	0.1
80°-90°	3.3	0.0	0.0
90°-100°	112.1	1.5	1.2
100°-110°	490.3	6.7	5.4
110°-120°	883.2	12.0	9.8
120°-130°	963.9	13.1	10.7
130°-140°	898.3	12.2	10.0
140°-150°	787.9	10.7	8.8
150°-160°	622.8	8.5	6.9
160°-170°	389.0	5.3	4.3
170°-180°	129.8	1.8	1.4
0°-30°	867.9	11.8	9.6
0°-40°	1340.1	18.2	14.9
0°-60°	2009.5	27.3	22.3
0°-90°	2088.7	28.4	23.2
90°-120°	1485.6	20.2	16.5
90°-150°	4135.7	56.1	46.0
90°-180°	5277.0	71.6	58.6
0°-180°	7366.0	100.0	81.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1170	1109	1165	1131	1202	113
15°	1107	1092	1168	1126	1095	311
25°	980	1033	947	875	873	453
35°	846	867	735	674	660	535
45°	691	634	488	437	437	533
55°	446	362	259	236	236	379
65°	35	44	62	61	56	73
75°	4	7	7	4	3	4
85°	0	1	2	1	0	1
90°	6	7	8	8	8	13
95°	78	115	75	69	70	94
105°	276	483	562	430	400	299
115°	506	688	980	1160	1171	502
125°	714	869	1089	1309	1367	650
135°	916	1057	1133	1293	1375	716
145°	1104	1204	1293	1308	1333	687
155°	1206	1300	1371	1421	1460	561
165°	1302	1335	1406	1402	1409	371
175°	1274	1348	1299	1389	1345	126
180°	1382	1382	1382	1382	1382	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.5	1299.5	1299.5	1299.5	1299.5
5°	1170.3	1108.9	1164.9	1131.4	1202.1
10°	1156.2	1139.1	1185.3	1170.7	1149.7
15°	1106.9	1092.2	1167.6	1125.6	1094.9
20°	1034.3	1122.7	1063.1	1052.1	1034.5
25°	980.2	1033.4	946.9	875.4	872.8
30°	931.9	943.2	854.0	785.8	809.7
35°	846.3	867.3	735.3	673.6	660.5
40°	790.2	728.5	612.7	556.5	548.5
45°	691.3	633.6	488.2	437.3	436.6
50°	586.9	500.5	370.4	328.1	321.7
55°	446.2	361.9	259.1	236.1	235.8
60°	219.7	181.7	165.8	129.2	120.7
65°	34.9	44.3	62.4	61.4	55.8
70°	8.1	12.5	15.5	14.3	8.6
75°	3.6	7.0	6.9	4.1	2.6
80°	1.3	3.4	4.4	2.3	1.1
85°	0.4	1.1	1.5	1.0	0.3
90°	6.5	7.4	7.5	7.6	7.5
95°	78.0	114.9	74.8	68.9	70.5
100°	187.0	331.6	237.1	194.5	190.1
105°	276.0	482.8	562.1	430.4	399.8
110°	394.5	601.0	852.2	816.1	785.5
115°	506.2	687.6	980.1	1160.0	1171.2
120°	621.2	773.5	1054.9	1263.3	1334.1
125°	713.8	869.0	1089.0	1308.9	1367.3
130°	858.0	968.6	1117.8	1306.2	1395.2
135°	916.3	1057.0	1133.1	1293.3	1374.7
140°	1012.6	1117.2	1214.3	1277.9	1356.7
145°	1103.8	1204.1	1292.8	1308.0	1332.9
150°	1166.6	1247.5	1353.2	1391.5	1360.2
155°	1206.1	1300.3	1370.6	1420.6	1460.3
160°	1282.5	1297.2	1353.3	1417.9	1465.1
165°	1302.4	1335.0	1406.4	1402.2	1409.0
170°	1353.9	1353.8	1372.1	1389.6	1479.1
175°	1273.7	1348.3	1299.0	1389.2	1344.6
180°	1382.3	1382.3	1382.3	1382.3	1382.3

(END OF REPORT)