

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: 89178

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89178
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-XUX-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

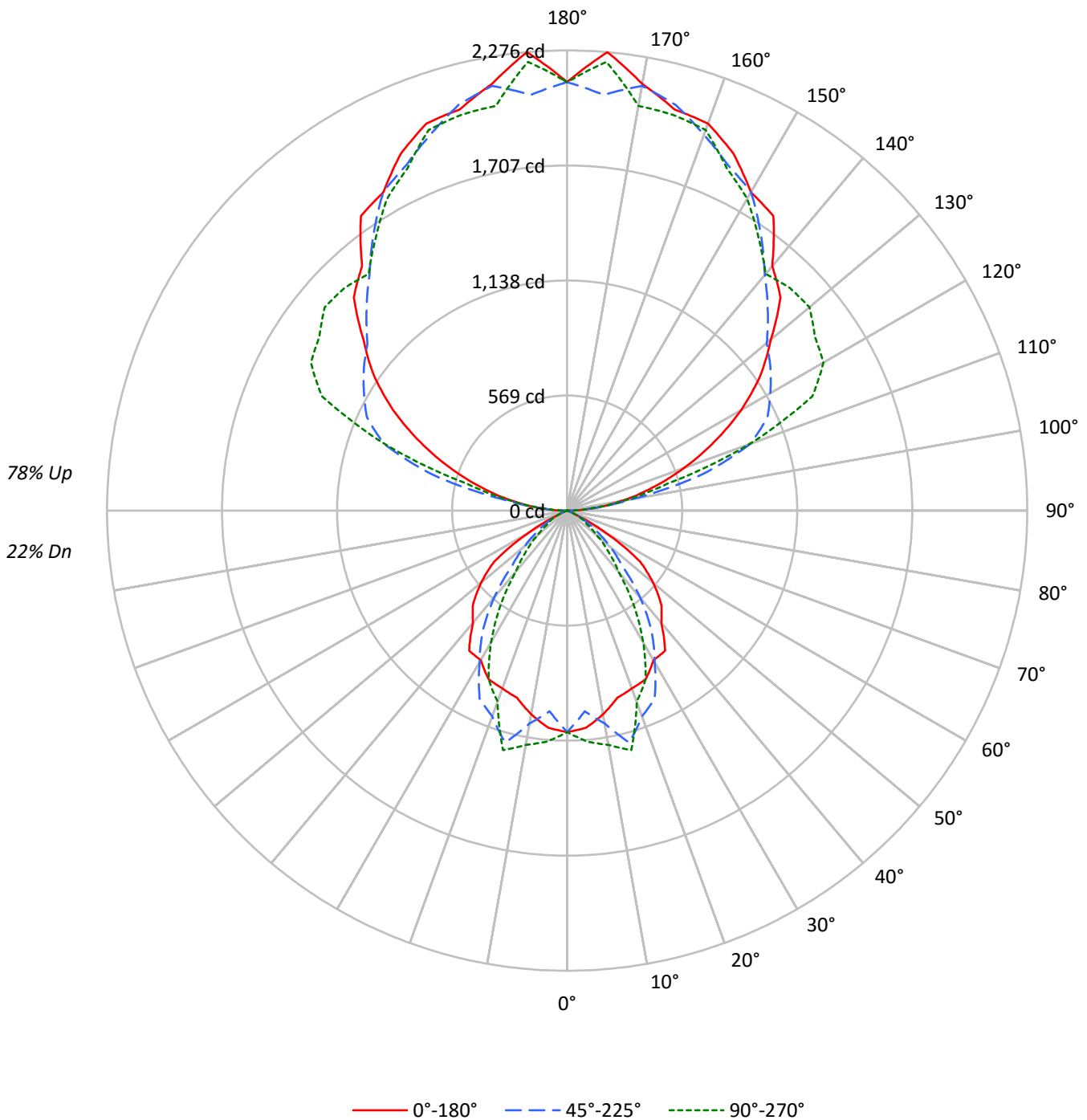
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 8755.6 lumens
Efficiency: 64.9%
Efficacy: 49.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.08 / 1.14
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Indirect

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				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	65	65	65	65	58	58	58	58	44	44	44	31	31	31	20	20	20	14
1	60	57	55	53	53	51	49	47	39	38	37	28	28	27	18	18	18	13
2	55	51	47	44	49	45	42	40	35	33	31	25	24	23	17	16	15	12
3	50	45	40	37	44	40	36	34	31	29	27	23	21	20	15	14	14	10
4	46	40	35	32	41	36	32	29	28	25	23	20	19	17	14	13	12	9
5	42	36	31	27	38	32	28	25	25	22	20	18	17	15	12	12	11	8
6	39	32	27	24	35	29	25	22	23	20	18	17	15	14	11	10	10	7
7	36	29	24	21	32	26	22	19	20	18	15	15	13	12	11	9	9	7
8	33	26	21	18	30	24	20	17	19	16	14	14	12	11	10	9	8	6
9	31	24	19	16	28	21	18	15	17	14	12	13	11	10	9	8	7	6
10	29	22	17	15	26	20	16	13	16	13	11	12	10	9	8	7	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5107	5107	5107
5°	5010	4479	5109
10°	4775	4675	5056
15°	4526	5096	5128
20°	4510	4593	4127
25°	4557	4333	3729
30°	4390	3673	3041
35°	4550	3128	2343
40°	4126	2460	1627
45°	4013	1728	1213
50°	3670	1280	848
55°	3205	869	543
60°	1841	544	414
65°	313	269	234
70°	87	83	42
75°	41	42	12
80°	27	29	4
85°	6	8	2



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	105.6	1.2	0.8
10°-20°	313.4	3.6	2.3
20°-30°	448.4	5.1	3.3
30°-40°	455.9	5.2	3.4
40°-50°	353.7	4.0	2.6
50°-60°	201.2	2.3	1.5
60°-70°	55.5	0.6	0.4
70°-80°	6.1	0.1	0.0
80°-90°	3.9	0.0	0.0
90°-100°	157.1	1.8	1.2
100°-110°	618.3	7.1	4.6
110°-120°	1040.5	11.9	7.7
120°-130°	1148.1	13.1	8.5
130°-140°	1130.1	12.9	8.4
140°-150°	1056.8	12.1	7.8
150°-160°	875.4	10.0	6.5
160°-170°	580.2	6.6	4.3
170°-180°	205.4	2.3	1.5
0°-30°	867.5	9.9	6.4
0°-40°	1323.4	15.1	9.8
0°-60°	1878.3	21.5	13.9
0°-90°	1943.8	22.2	14.4
90°-120°	1815.9	20.7	13.5
90°-150°	5150.8	58.8	38.2
90°-180°	6812.0	77.8	50.5
0°-180°	8755.6	100.0	64.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1078	1112	996	1188	1147	101
15°	958	1096	1188	1168	1226	274
25°	920	1080	1025	961	920	419
35°	846	908	729	606	578	512
45°	659	652	384	325	290	502
55°	441	301	178	131	122	371
65°	33	35	49	56	48	73
75°	3	6	6	3	2	4
85°	0	1	1	0	0	1
90°	8	11	11	10	12	19
95°	120	147	116	108	111	138
105°	434	575	692	574	512	463
115°	802	840	1094	1292	1338	795
125°	1168	1137	1227	1435	1496	1040
135°	1492	1449	1403	1465	1557	1136
145°	1779	1728	1670	1663	1650	1090
155°	1947	1943	1884	1855	1868	894
165°	2054	2069	2077	2049	2027	586
175°	2276	2194	2064	2257	2228	211
180°	2119	2119	2119	2119	2119	



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CATALOG NUMBER: E2-SB-3T5-XUX-3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.4	1095.4	1095.4	1095.4	1095.4
5°	1078.2	1111.6	996.0	1188.4	1146.7
10°	1023.3	1081.8	1068.6	1214.9	1176.6
15°	958.4	1095.7	1187.5	1168.5	1226.5
20°	936.3	1072.5	1082.6	1055.9	1006.3
25°	919.9	1079.9	1025.3	961.1	919.6
30°	854.3	948.2	865.7	800.7	752.9
35°	845.7	908.1	728.8	606.2	577.7
40°	724.8	780.5	562.2	447.3	396.6
45°	658.9	651.7	384.1	324.7	289.9
50°	555.7	468.0	274.5	212.5	197.3
55°	440.7	300.7	178.1	131.3	121.8
60°	225.7	144.7	105.5	91.5	88.8
65°	33.4	34.6	48.7	56.0	47.5
70°	7.8	11.1	13.9	12.9	8.0
75°	3.0	6.5	6.4	3.3	2.1
80°	1.5	3.3	3.9	1.5	0.6
85°	0.2	0.9	1.0	0.5	0.3
90°	8.4	11.2	11.1	10.4	11.5
95°	120.3	147.1	115.6	108.5	110.6
100°	274.3	397.2	328.6	286.8	285.7
105°	434.4	575.1	691.9	574.5	511.6
110°	612.7	686.4	963.1	1020.2	957.3
115°	801.6	840.3	1093.5	1291.5	1338.0
120°	993.8	978.6	1160.6	1385.1	1463.6
125°	1167.8	1136.7	1227.4	1434.6	1496.3
130°	1315.4	1306.3	1288.9	1447.2	1564.8
135°	1492.2	1449.1	1403.0	1464.8	1557.4
140°	1578.0	1591.0	1520.8	1548.4	1527.2
145°	1778.6	1727.6	1669.6	1663.0	1649.6
150°	1817.6	1806.6	1819.2	1793.9	1780.7
155°	1947.0	1942.9	1883.9	1855.1	1868.2
160°	2037.0	1989.7	1977.9	1940.4	2002.9
165°	2053.7	2068.6	2076.7	2049.4	2026.6
170°	2142.7	2113.2	2132.4	2102.1	2032.1
175°	2276.3	2193.8	2064.3	2256.7	2227.6
180°	2119.2	2119.2	2119.2	2119.2	2119.2

(END OF REPORT)