

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: 266p102

Luminaire Tested: **E2W-WW-2T5HO-1C-120-4**

Issue Date: 3/3/2020

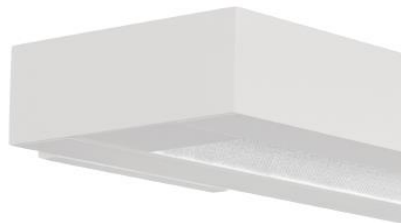
Test Information

Test Method: LM-41-14
Report Number: 266p102
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2W-WW-2T5HO-1C-120-4
Description: ELEMENT WALL MOUNT, 2 LAMP T5HO, WITH WHITE BLADE LOUVER,
COMBINED UPPER/LOWER
Light Source: TWO - F54T5HO - 4450 LUMENS -54 WATTS
Ballast/Driver: -

Summary

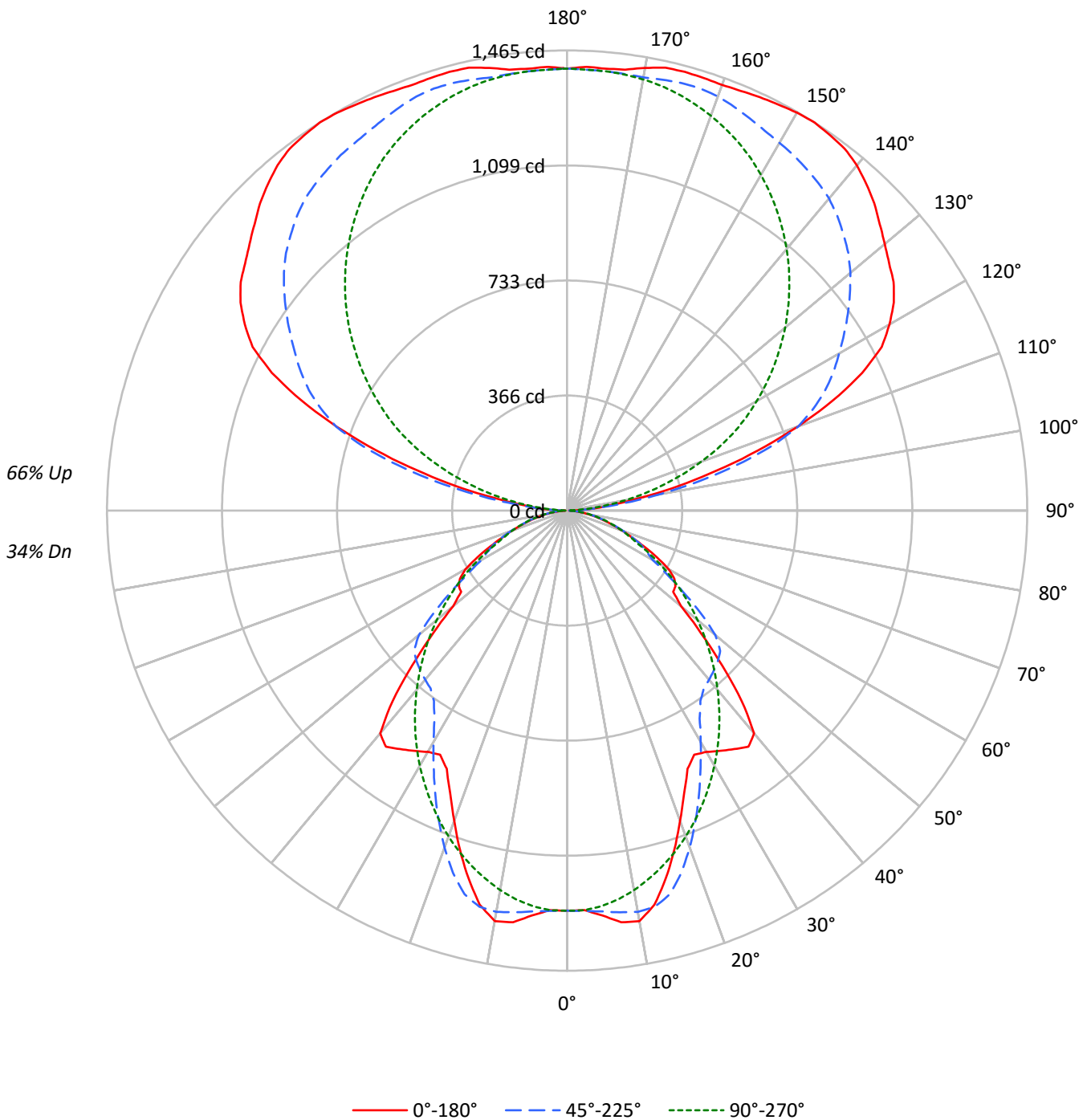
Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 8156.0 lumens
Efficiency: 91.6%
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.11 / 1.18
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 117
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	95	95	95	95	85	85	85	85	68	68	68	53	53	53	38	38	38	31																			
1	87	83	79	76	78	75	72	70	60	58	56	47	45	44	34	33	33	27																			
2	79	73	67	63	71	66	61	57	53	50	47	41	39	37	30	29	28	23																			
3	72	64	58	53	65	58	53	48	47	43	40	37	34	32	27	25	24	20																			
4	66	57	50	45	60	52	46	41	42	37	34	33	30	27	24	22	21	17																			
5	61	51	43	38	55	46	40	35	37	33	29	29	26	24	22	20	18	15																			
6	56	45	38	33	50	41	35	31	34	29	26	27	23	21	20	18	16	13																			
7	52	41	34	29	47	37	31	27	31	26	23	24	21	19	18	16	14	12																			
8	48	37	30	26	43	34	28	24	28	23	20	22	19	17	17	15	13	11																			
9	45	34	27	23	40	31	25	21	26	21	18	20	17	15	16	13	12	10																			
10	42	31	25	20	38	28	23	19	24	19	16	19	16	13	14	12	11	9																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10285	10285	10285
5°	10486	10381	10243
10°	10878	10632	10058
15°	10138	10564	9795
20°	9029	9802	9485
25°	8079	8854	9130
30°	8268	7924	8744
35°	9136	7293	8318
40°	9759	7409	7851
45°	7969	7741	7352
50°	5953	7737	6807
55°	5925	6334	6207
60°	6039	5086	5522
65°	5138	4967	4718
70°	4367	4461	4367
75°	3805	3961	3993
80°	3301	3533	3626
85°	2594	3057	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	122.6	1.5	1.4
10°-20°	342.7	4.2	3.9
20°-30°	459.7	5.6	5.2
30°-40°	525.3	6.4	5.9
40°-50°	515.1	6.3	5.8
50°-60°	382.6	4.7	4.3
60°-70°	260.6	3.2	2.9
70°-80°	135.6	1.7	1.5
80°-90°	38.9	0.5	0.4
90°-100°	125.4	1.5	1.4
100°-110°	517.8	6.3	5.8
110°-120°	844.8	10.4	9.5
120°-130°	952.2	11.7	10.7
130°-140°	937.9	11.5	10.5
140°-150°	827.6	10.1	9.3
150°-160°	635.2	7.8	7.1
160°-170°	397.9	4.9	4.5
170°-180°	134.2	1.6	1.5
0°-30°	925.0	11.3	10.4
0°-40°	1450.3	17.8	16.3
0°-60°	2348.1	28.8	26.4
0°-90°	2783.1	34.1	31.3
90°-120°	1488.0	18.2	16.7
90°-150°	4205.7	51.6	47.3
90°-180°	5373.0	65.9	60.4
0°-180°	8156.0	100.0	91.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1294	1296	1281	1268	1264	125
15°	1213	1235	1264	1217	1172	338
25°	907	924	994	1096	1025	429
35°	927	860	740	858	844	580
45°	698	737	678	605	644	537
55°	421	390	450	415	441	375
65°	269	270	260	263	247	270
75°	122	123	127	133	128	131
85°	28	29	33	37	35	32
90°	6	7	7	7	4	9
95°	94	94	98	126	60	106
105°	495	512	558	490	319	529
115°	1037	1015	907	719	584	1006
125°	1269	1209	1091	924	804	1131
135°	1383	1343	1244	1078	1000	1068
145°	1459	1423	1328	1222	1165	914
155°	1452	1429	1377	1320	1292	672
165°	1446	1438	1409	1373	1372	409
175°	1412	1411	1404	1401	1404	135
180°	1407	1407	1407	1407	1407	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274	1274	1274	1274	1274
2.5°	1273	1280	1276	1273	1273
5°	1294	1296	1281	1268	1264
7.5°	1322	1318	1290	1260	1248
10°	1327	1329	1297	1248	1227
12.5°	1285	1300	1292	1234	1201
15°	1213	1235	1264	1217	1172
17.5°	1134	1159	1209	1197	1140
20°	1051	1078	1141	1172	1104
22.5°	973	998	1068	1138	1066
25°	907	924	994	1096	1025
27.5°	876	868	920	1044	982
30°	887	843	850	985	938
32.5°	907	851	785	922	892
35°	927	860	740	858	844
37.5°	948	868	714	793	795
40°	926	875	703	729	745
42.5°	823	838	691	665	694
45°	698	737	678	605	644
47.5°	578	622	661	547	593
50°	474	518	616	496	542
52.5°	425	429	536	452	491
55°	421	390	450	415	441
57.5°	405	378	375	383	391
60°	374	354	315	348	342
62.5°	322	317	286	309	293
65°	269	270	260	263	247
67.5°	222	223	226	219	213
70°	185	185	189	188	185
72.5°	152	153	156	160	156
75°	122	123	127	133	128
77.5°	95	96	100	106	101
80°	71	72	76	82	78
82.5°	48	50	53	59	56
85°	28	29	33	37	35
87.5°	13	14	15	18	16
90°	6	7	7	7	4
92.5°	43	43	45	46	14
95°	94	94	98	126	60
97.5°	151	157	185	237	120
100°	244	257	298	348	185
102.5°	364	378	428	429	251
105°	495	512	558	490	319
107.5°	637	650	682	547	387
110°	780	788	783	606	454



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	916	915	849	663	520
115°	1037	1015	907	719	584
117.5°	1129	1084	956	775	642
120°	1185	1134	1000	828	697
122.5°	1233	1179	1045	878	751
125°	1269	1209	1091	924	804
127.5°	1292	1240	1135	967	855
130°	1320	1275	1177	1007	906
132.5°	1350	1311	1214	1043	954
135°	1383	1343	1244	1078	1000
137.5°	1410	1373	1273	1116	1045
140°	1435	1396	1297	1153	1087
142.5°	1452	1411	1314	1188	1127
145°	1459	1423	1328	1222	1165
147.5°	1465	1429	1342	1252	1201
150°	1463	1429	1352	1279	1234
152.5°	1457	1429	1363	1302	1265
155°	1452	1429	1377	1320	1292
157.5°	1446	1426	1391	1336	1316
160°	1442	1429	1403	1349	1338
162.5°	1444	1434	1409	1361	1356
165°	1446	1438	1409	1373	1372
167.5°	1444	1434	1405	1384	1385
170°	1431	1422	1400	1393	1394
172.5°	1416	1410	1402	1398	1400
175°	1412	1411	1404	1401	1404
177.5°	1414	1411	1405	1403	1405
180°	1407	1407	1407	1407	1407

(END OF REPORT)