

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: 26347

Luminaire Tested: **I2-WB-2T5-1C-UNV-04**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 26347  
Test Lab: LIGHTING SCIENCES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I2-WB-2T5-1C-UNV-04  
Description: WITH WHITE INTERIOR AND 28 CELL SEMI-SPECULAR PARABOLIC LOUVER

Light Source: TWO PHILIPS 54 WATT T5 LAMPS  
F54T5/835HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

**Summary**

Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 7865.5 lumens  
Efficiency: 87.4%  
Efficacy: 67.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.32 / 1.32  
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')  
CIE Type: Semi-Indirect

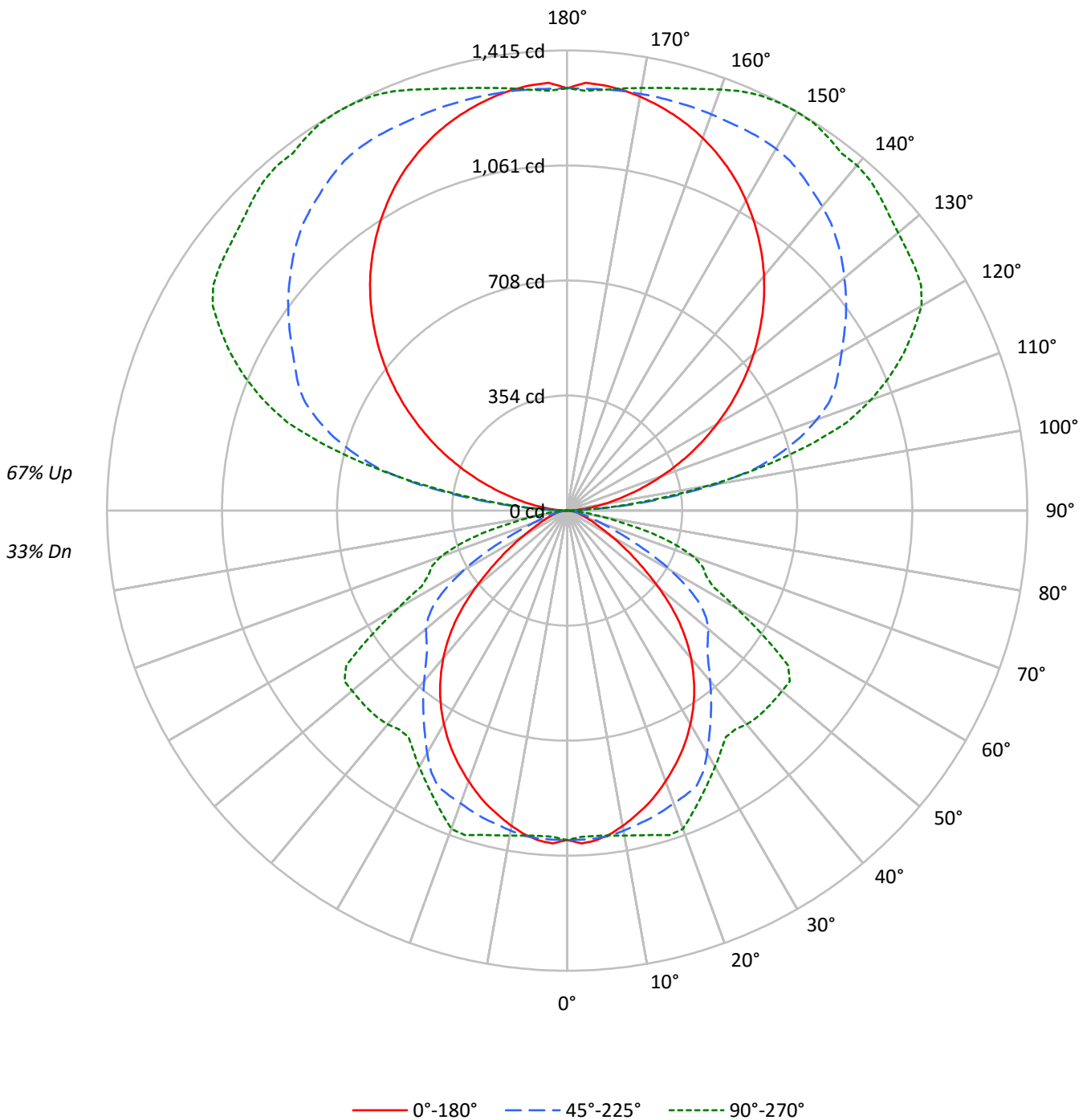
Input Watts (W): 117.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0																
RCR																																					
0	90	90	90	90	81	81	81	81	65	65	65	49	49	49	35	35	35	29																			
1	82	79	76	73	74	71	69	66	57	55	53	44	43	42	32	31	30	25																			
2	75	69	64	60	68	62	58	55	50	47	45	39	37	35	28	27	26	21																			
3	69	61	55	50	62	55	50	46	44	41	38	34	32	30	25	23	22	18																			
4	63	54	47	42	56	49	43	39	39	35	32	31	28	25	22	21	19	16																			
5	58	48	41	36	52	43	37	33	35	31	27	27	24	22	20	18	17	14																			
6	53	43	36	31	48	39	33	29	32	27	24	25	22	19	18	16	15	12																			
7	49	38	32	27	44	35	29	25	29	24	21	22	19	17	17	15	13	11																			
8	45	35	28	24	41	32	26	22	26	22	19	20	17	15	15	13	12	9																			
9	42	32	25	21	38	29	23	20	24	19	16	19	16	13	14	12	10	8																			
10	39	29	23	19	35	26	21	17	22	18	15	17	14	12	13	11	9	8																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9580	9580	9580
5°	9667	9608	9532
10°	9456	9603	9747
15°	9202	9607	10114
20°	8918	9649	10485
25°	8623	9787	10157
30°	8281	9404	9942
35°	7874	8895	9820
40°	7320	8449	10603
45°	6550	8146	11562
50°	5375	8341	12699
55°	4087	8206	13671
60°	2933	6973	11382
65°	2133	4813	10522
70°	1698	3037	11436
75°	1524	2076	9877
80°	1411	1498	5803
85°	1183	1162	2931



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	96.2	1.2	1.1
10°-20°	278.3	3.5	3.1
20°-30°	419.5	5.3	4.7
30°-40°	484.4	6.2	5.4
40°-50°	504.1	6.4	5.6
50°-60°	443.3	5.6	4.9
60°-70°	249.7	3.2	2.8
70°-80°	100.9	1.3	1.1
80°-90°	17.5	0.2	0.2
90°-100°	176.5	2.2	2.0
100°-110°	609.5	7.7	6.8
110°-120°	840.3	10.7	9.3
120°-130°	908.0	11.5	10.1
130°-140°	878.3	11.2	9.8
140°-150°	771.9	9.8	8.6
150°-160°	594.8	7.6	6.6
160°-170°	368.0	4.7	4.1
170°-180°	124.1	1.6	1.4
0°-30°	794.0	10.1	8.8
0°-40°	1278.5	16.3	14.2
0°-60°	2225.9	28.3	24.7
0°-90°	2594.0	33.0	28.8
90°-120°	1626.3	20.7	18.1
90°-150°	4184.5	53.2	46.5
90°-180°	5271.0	67.0	58.6
0°-180°	7865.5	100.0	87.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1013	1013	1013	1013	1013	
5°	1018	1012	1012	1014	1004	96
15°	940	948	981	1024	1033	264
25°	826	854	938	962	973	380
35°	682	738	770	811	850	425
45°	490	564	609	763	864	374
55°	248	314	498	688	829	224
65°	95	116	215	360	470	99
75°	42	41	57	117	270	45
85°	11	10	11	13	27	12
90°	0	4	3	2	1	3
95°	43	170	172	163	149	50
105°	204	430	677	764	763	217
115°	420	625	912	1091	1142	415
125°	642	811	1047	1226	1305	574
135°	848	964	1174	1310	1362	654
145°	1025	1093	1258	1366	1400	641
155°	1166	1197	1292	1377	1408	537
165°	1261	1263	1299	1331	1344	356
175°	1312	1297	1300	1299	1299	125
180°	1299	1299	1299	1299	1299	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1012.6	1012.6	1012.6	1012.6	1012.6
2.5°	1024.5	1017.9	1012.8	1011.9	1004.3
5°	1017.9	1012.0	1011.7	1014.4	1003.7
7.5°	1004.1	1002.1	1008.7	1015.2	1007.6
10°	984.3	985.9	999.6	1016.8	1014.6
12.5°	962.5	967.9	989.4	1021.1	1022.5
15°	939.5	947.6	980.8	1024.1	1032.6
17.5°	914.0	925.6	969.8	1026.1	1046.1
20°	885.7	903.3	958.4	1030.5	1041.4
22.5°	856.4	879.2	948.0	1001.7	1006.8
25°	826.0	853.8	937.5	961.5	973.0
27.5°	793.2	828.4	905.6	923.6	940.2
30°	758.0	800.0	860.8	884.9	910.0
32.5°	721.3	769.9	813.9	847.1	878.7
35°	681.7	738.3	770.1	810.6	850.2
37.5°	638.2	703.9	727.2	777.7	848.0
40°	592.7	665.8	684.1	771.4	858.5
42.5°	543.2	619.6	644.0	769.7	863.0
45°	489.5	563.7	608.8	763.0	864.1
47.5°	430.5	503.5	586.6	752.8	863.5
50°	365.2	440.4	566.7	739.4	862.8
52.5°	303.1	377.3	538.3	720.7	862.9
55°	247.8	313.5	497.5	688.0	828.8
57.5°	197.9	250.5	437.5	624.9	714.3
60°	155.0	195.8	368.5	524.5	601.5
62.5°	121.1	150.6	292.2	435.8	504.4
65°	95.3	116.3	215.0	359.5	470.0
67.5°	76.1	90.0	154.2	307.0	451.5
70°	61.4	69.8	109.8	245.5	413.4
72.5°	50.5	53.8	79.1	177.2	349.5
75°	41.7	41.0	56.8	116.7	270.2
77.5°	33.9	30.7	39.9	70.6	169.8
80°	25.9	22.4	27.5	42.2	106.5
82.5°	18.1	15.8	18.3	24.4	62.2
85°	10.9	10.5	10.7	12.6	27.0
87.5°	4.9	6.0	6.0	5.5	6.1
90°	0.0	3.7	2.8	2.1	0.7
92.5°	17.3	57.4	47.8	37.0	31.9
95°	43.4	169.5	172.4	162.7	148.8
97.5°	75.0	267.9	313.2	299.2	285.2
100°	112.7	334.2	460.6	455.9	440.2
102.5°	156.0	387.2	590.4	613.0	604.0
105°	203.5	430.1	676.9	764.3	762.7
107.5°	254.7	474.8	752.4	872.0	901.5
110°	308.5	524.3	816.9	952.3	993.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	363.4	575.0	872.8	1026.1	1071.7
115°	419.6	624.9	911.6	1091.0	1141.8
117.5°	476.0	674.4	942.2	1148.8	1201.2
120°	531.6	722.8	975.0	1188.6	1258.4
122.5°	587.2	768.5	1010.1	1209.4	1290.3
125°	642.3	811.4	1046.6	1225.8	1305.2
127.5°	696.1	852.8	1081.2	1243.9	1316.6
130°	748.5	891.3	1112.6	1264.8	1328.4
132.5°	798.7	928.2	1144.9	1289.1	1343.7
135°	848.4	964.0	1173.5	1309.9	1362.3
137.5°	896.3	995.0	1200.1	1323.8	1378.5
140°	941.8	1026.1	1220.6	1337.6	1386.1
142.5°	984.8	1060.1	1239.4	1347.4	1385.6
145°	1025.3	1093.0	1258.2	1366.2	1400.5
147.5°	1064.0	1123.1	1275.5	1376.4	1412.3
150°	1100.6	1150.2	1284.8	1382.4	1415.0
152.5°	1135.0	1175.0	1290.1	1382.3	1413.5
155°	1166.0	1197.0	1292.5	1377.1	1408.1
157.5°	1193.4	1216.6	1293.9	1364.7	1395.7
160°	1219.1	1233.2	1296.8	1352.5	1377.6
162.5°	1241.6	1248.8	1299.1	1340.9	1359.2
165°	1261.0	1263.0	1299.3	1331.2	1344.0
167.5°	1277.9	1274.3	1301.2	1321.0	1331.4
170°	1292.7	1283.6	1301.0	1311.4	1319.3
172.5°	1304.3	1292.0	1301.5	1304.7	1309.2
175°	1312.5	1297.0	1300.0	1299.1	1299.0
177.5°	1316.8	1299.8	1298.1	1292.2	1291.9
180°	1298.6	1298.6	1298.6	1298.6	1298.6

(END OF REPORT)