

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: ITL67609

Luminaire Tested: **Z3-WB-2T5-1C-UNV-24-T1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL67609  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WB-2T5-1C-UNV-24-T1  
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, TWO FORMED WHITE PAINTED OUTBOARD REFLECTORS, ONE EXTRUDED FROSTED PLASTIC DIFFUSER BELOW EACH REFLECTOR, EXTRUDED CLEAR LINEAR PRISMATIC PLASTIC LENS BELOW LAMPS WITH FROSTED MICRO-LINEAR PRISMATIC SIDES AND MOLDED WHITE PLASTIC 83-CELL INTERIOR LOUVER, BOTTOM LENS PRISMS UP AND PARALLEL WITH LAMPS, SIDE PRISMS OUT AND PARALLEL WITH LAMPS, DIFFUSERS FROSTED BOTH SIDES.  
Light Source: TWO 54-WATT T-5 SYLVANIA FP54/841/HO/ECO LINEAR FLUORESCENTS.  
Ballast/Driver: UNIVERSAL B254PUNV-D

**Summary**

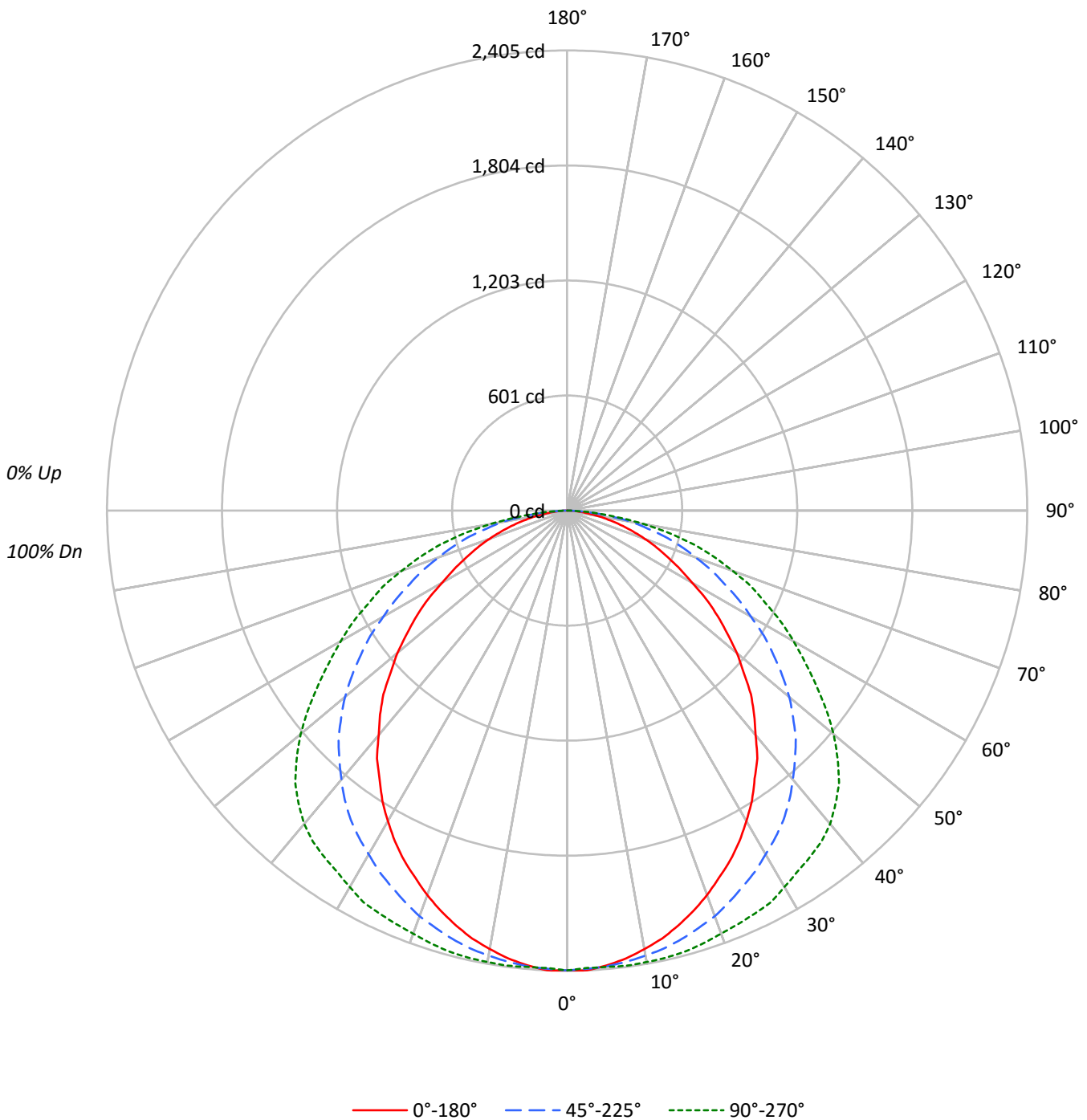
Lumens per Lamp: 4450 (2 lamps)  
Luminaire Lumens: 7150.9 lumens  
Efficiency: 80.3%  
Efficacy: 63.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.42 / 1.42  
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')  
CIE Type: Direct

Input Watts (W): 113.2  
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	50	30	10	0	
RCR																						
0	96	96	96	96	93	93	93	93	89	89	89	85	85	85	82	82	82	80				
1	87	83	80	77	85	81	78	75	78	75	73	75	73	71	72	70	69	67				
2	79	72	67	62	77	71	66	61	68	64	60	65	62	58	63	60	57	55				
3	72	63	57	51	70	62	56	51	60	54	50	57	53	49	55	51	48	46				
4	66	56	49	43	64	55	48	43	53	47	42	51	46	42	49	45	41	39				
5	60	50	43	37	59	49	42	37	47	41	37	46	40	36	44	40	36	34				
6	56	45	38	32	54	44	37	32	43	37	32	41	36	32	40	35	31	30				
7	52	41	34	29	50	40	33	28	39	33	28	38	32	28	36	32	28	26				
8	48	37	30	25	47	37	30	25	35	29	25	34	29	25	33	29	25	23				
9	45	34	27	23	44	34	27	23	33	27	23	32	26	22	31	26	22	21				
10	42	31	25	21	41	31	25	21	30	24	20	29	24	20	29	24	20	19				

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

	0°	45°	90°
0°	3685	3685	3685
5°	3673	3681	3685
10°	3624	3678	3731
15°	3564	3680	3788
20°	3489	3682	3840
25°	3413	3672	3931
30°	3318	3673	4023
35°	3199	3692	4141
40°	3067	3675	4280
45°	2945	3665	4359
50°	2763	3617	4337
55°	2567	3521	4243
60°	2313	3401	4193
65°	2119	3295	4148
70°	1932	3197	4121
75°	1712	3146	4065
80°	1422	3020	3585
85°	1073	2340	2516



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	227.3	3.2	2.6
10°-20°	653.9	9.1	7.3
20°-30°	1001.4	14.0	11.3
30°-40°	1230.5	17.2	13.8
40°-50°	1298.5	18.2	14.6
50°-60°	1164.2	16.3	13.1
60°-70°	887.7	12.4	10.0
70°-80°	539.7	7.5	6.1
80°-90°	147.6	2.1	1.7
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	1882.7	26.3	21.2
0°-40°	3113.2	43.5	35.0
0°-60°	5575.9	78.0	62.7
0°-90°	7150.9	100.0	80.3
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	7150.9	100.0	80.3

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2403	2403	2403	2403	2403	
5°	2386	2387	2391	2394	2394	226
15°	2245	2266	2318	2366	2386	632
25°	2017	2069	2170	2273	2323	928
35°	1709	1803	1972	2132	2212	1070
45°	1358	1466	1690	1915	2010	1041
55°	960	1094	1317	1523	1587	856
65°	584	709	908	1102	1143	582
75°	289	375	531	667	686	307
85°	61	108	133	155	143	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2403	2403	2403	2403	2403
2.5°	2405	2402	2397	2396	2393
5°	2386	2387	2391	2394	2394
7.5°	2361	2364	2378	2393	2399
10°	2327	2338	2362	2391	2396
12.5°	2291	2301	2344	2376	2393
15°	2245	2266	2318	2366	2386
17.5°	2194	2227	2287	2348	2371
20°	2138	2179	2256	2324	2353
22.5°	2076	2130	2214	2299	2338
25°	2017	2069	2170	2273	2323
27.5°	1949	2008	2127	2250	2307
30°	1874	1937	2074	2217	2272
32.5°	1797	1874	2026	2175	2238
35°	1709	1803	1972	2132	2212
37.5°	1633	1721	1908	2090	2182
40°	1532	1640	1836	2044	2138
42.5°	1447	1549	1762	1981	2077
45°	1358	1466	1690	1915	2010
47.5°	1250	1381	1601	1834	1917
50°	1158	1283	1516	1739	1818
52.5°	1053	1191	1418	1638	1706
55°	960	1094	1317	1523	1587
57.5°	861	995	1220	1413	1474
60°	754	893	1109	1304	1367
62.5°	668	800	1012	1205	1261
65°	584	709	908	1102	1143
67.5°	508	611	817	992	1045
70°	431	533	713	888	919
72.5°	358	449	625	765	805
75°	289	375	531	667	686
77.5°	221	309	427	549	548
80°	161	237	342	397	406
82.5°	105	170	226	274	264
85°	61	108	133	155	143
87.5°	25	43	52	56	51
90°	0	0	0	0	0

(END OF REPORT)