

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: ITL67607

Luminaire Tested: **R3-WD-2T5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67607
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-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 PLASTIC LENS BELOW LAMPS WITH LINEAR PRISMATIC SIDES AND FROSTED PLASTIC OVERLAY WITH WHITE GRID PATTERN ON TOP SURFACE, LENS PRISMS OUT AND PARALLEL WITH LAMPS, OVERLAY FROSTED SIDE DOWN, DIFFUSERS FROSTED BOTH SIDES.
Light Source: TWO 54-WATT T-5 SYLVANIA FP54/841/HO/ECO LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B254PUNV-D

Summary

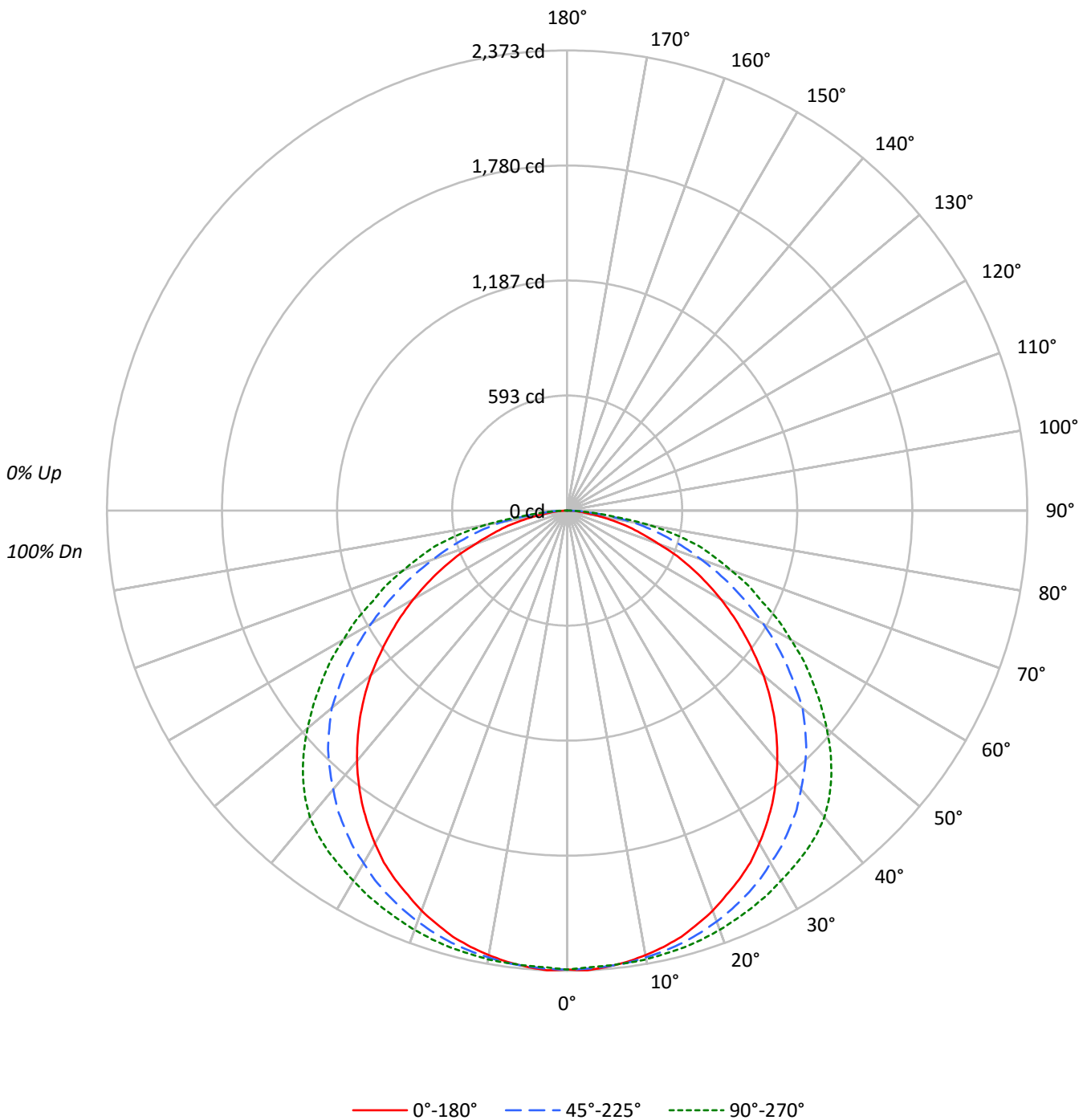
Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 7320.5 lumens
Efficiency: 82.3%
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.4 / 1.45
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 113.9
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									
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	98	98	98	98	96	96	96	96	91	91	91	88	88	88	84	84	84	82																			
1	89	85	82	78	87	83	80	77	80	77	75	77	74	72	74	72	70	68																			
2	81	74	68	63	79	72	67	63	69	65	61	67	63	60	64	61	58	56																			
3	74	65	58	52	71	63	57	52	61	55	51	59	54	50	56	52	49	47																			
4	67	57	50	44	65	56	49	44	54	48	43	52	47	43	50	46	42	40																			
5	62	51	43	38	60	50	43	38	48	42	37	47	41	37	45	40	36	35																			
6	57	46	38	33	55	45	38	33	43	37	32	42	36	32	41	36	32	30																			
7	53	41	34	29	51	41	34	29	39	33	29	38	33	28	37	32	28	26																			
8	49	38	31	26	48	37	30	26	36	30	25	35	29	25	34	29	25	23																			
9	46	35	28	23	45	34	27	23	33	27	23	32	27	23	31	26	23	21																			
10	43	32	25	21	42	31	25	21	31	25	21	30	24	21	29	24	20	19																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3630	3630	3630
5°	3636	3633	3627
10°	3625	3644	3659
15°	3612	3663	3702
20°	3584	3680	3755
25°	3552	3701	3821
30°	3510	3717	3903
35°	3452	3744	4018
40°	3375	3756	4132
45°	3277	3782	4179
50°	3154	3781	4168
55°	2986	3692	4136
60°	2806	3582	4085
65°	2591	3447	4013
70°	2251	3291	4026
75°	1973	3164	4159
80°	1528	3038	3797
85°	1091	2041	2252



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	224.7	3.1	2.5
10°-20°	651.2	8.9	7.3
20°-30°	1007.4	13.8	11.3
30°-40°	1251.1	17.1	14.1
40°-50°	1336.0	18.3	15.0
50°-60°	1214.9	16.6	13.7
60°-70°	929.3	12.7	10.4
70°-80°	559.9	7.6	6.3
80°-90°	145.9	2.0	1.6
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°	1883.3	25.7	21.2
0°-40°	3134.4	42.8	35.2
0°-60°	5685.4	77.7	63.9
0°-90°	7320.5	100.0	82.3
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°	7320.5	100.0	82.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2367	2367	2367	2367	2367	
5°	2362	2363	2360	2358	2356	224
15°	2275	2284	2307	2326	2332	641
25°	2099	2126	2187	2241	2258	967
35°	1844	1898	2000	2108	2146	1152
45°	1511	1586	1744	1896	1927	1164
55°	1117	1209	1381	1511	1547	999
65°	714	810	950	1093	1106	705
75°	333	415	534	660	702	348
85°	62	102	116	143	128	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2367	2367	2367	2367	2367
2.5°	2373	2371	2365	2360	2358
5°	2362	2363	2360	2358	2356
7.5°	2348	2350	2353	2355	2353
10°	2328	2333	2340	2348	2350
12.5°	2304	2308	2325	2339	2340
15°	2275	2284	2307	2326	2332
17.5°	2236	2256	2283	2311	2318
20°	2196	2216	2255	2291	2301
22.5°	2146	2176	2223	2269	2280
25°	2099	2126	2187	2241	2258
27.5°	2046	2079	2148	2214	2234
30°	1982	2020	2099	2181	2204
32.5°	1915	1961	2055	2145	2176
35°	1844	1898	2000	2108	2146
37.5°	1767	1821	1944	2063	2110
40°	1686	1753	1876	2022	2064
42.5°	1600	1668	1812	1957	2002
45°	1511	1586	1744	1896	1927
47.5°	1417	1503	1664	1813	1843
50°	1322	1401	1585	1711	1747
52.5°	1217	1315	1478	1625	1650
55°	1117	1209	1381	1511	1547
57.5°	1017	1109	1276	1415	1449
60°	915	1007	1168	1295	1332
62.5°	813	906	1058	1191	1228
65°	714	810	950	1093	1106
67.5°	614	702	842	973	1012
70°	502	605	734	875	898
72.5°	410	508	634	762	795
75°	333	415	534	660	702
77.5°	242	332	437	565	570
80°	173	250	344	426	430
82.5°	109	175	219	274	252
85°	62	102	116	143	128
87.5°	19	37	50	58	53
90°	0	0	0	0	0

(END OF REPORT)