

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: ITL67606

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67606
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-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, 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

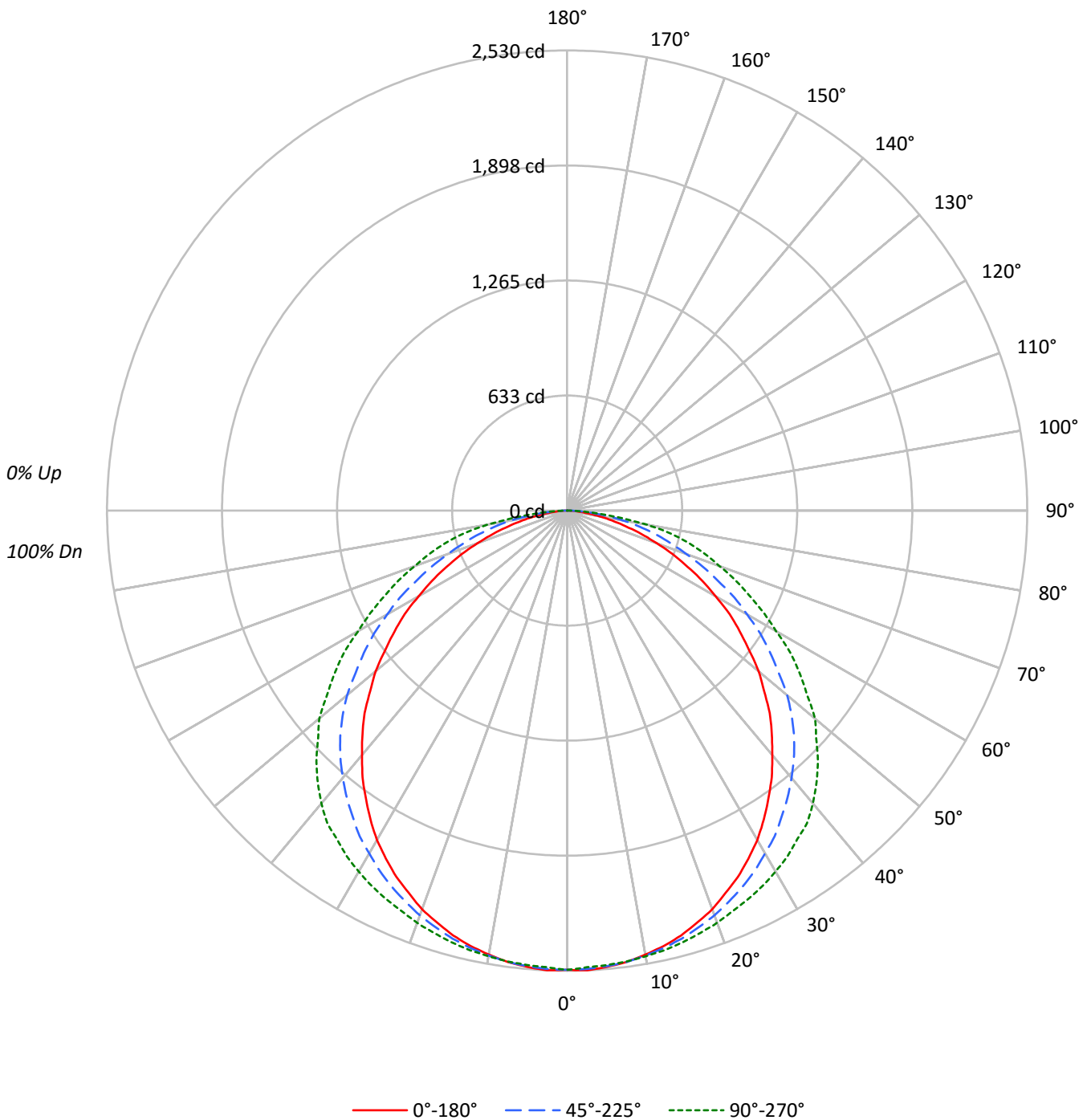
Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 7438.1 lumens
Efficiency: 83.6%
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.35 / 1.41
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 114
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									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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	99	99	99	99	97	97	97	97	93	93	93	89	89	89	85	85	85	84																												
1	91	87	83	80	88	85	82	79	81	79	76	78	76	74	75	73	72	70																												
2	82	75	70	65	80	74	69	64	71	66	63	68	64	61	66	62	60	58																												
3	75	66	59	54	73	65	58	53	62	57	52	60	55	51	58	54	50	49																												
4	69	59	51	45	67	57	50	45	55	49	44	53	48	44	51	47	43	41																												
5	63	52	45	39	61	51	44	39	49	43	38	48	42	38	46	41	37	36																												
6	58	47	39	34	57	46	39	34	45	38	33	43	38	33	42	37	33	31																												
7	54	43	35	30	52	42	35	30	41	34	30	39	34	29	38	33	29	27																												
8	50	39	32	27	49	38	31	27	37	31	26	36	30	26	35	30	26	24																												
9	47	36	29	24	46	35	28	24	34	28	24	33	28	24	32	27	23	22																												
10	44	33	26	22	43	32	26	22	31	26	22	31	25	21	30	25	21	20																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3872	3872	3872
5°	3876	3870	3861
10°	3860	3868	3874
15°	3840	3867	3901
20°	3807	3864	3936
25°	3760	3861	3987
30°	3703	3853	4059
35°	3613	3849	4130
40°	3511	3842	4208
45°	3416	3828	4229
50°	3280	3769	4244
55°	3096	3647	4176
60°	2889	3503	4070
65°	2653	3324	4006
70°	2341	3121	3995
75°	1973	2974	4130
80°	1581	2773	3903
85°	1091	2147	2622



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	239.1	3.2	2.7
10°-20°	688.0	9.2	7.7
20°-30°	1053.4	14.2	11.8
30°-40°	1291.9	17.4	14.5
40°-50°	1357.3	18.2	15.3
50°-60°	1216.4	16.4	13.7
60°-70°	912.3	12.3	10.3
70°-80°	537.0	7.2	6.0
80°-90°	142.8	1.9	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°	1980.4	26.6	22.3
0°-40°	3272.3	44.0	36.8
0°-60°	5846.0	78.6	65.7
0°-90°	7438.1	100.0	83.6
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°	7438.1	100.0	83.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2525	2525	2525	2525	2525	
5°	2518	2517	2514	2512	2508	239
15°	2419	2420	2436	2452	2457	682
25°	2222	2234	2282	2332	2356	1023
35°	1930	1969	2056	2170	2206	1207
45°	1575	1621	1765	1899	1950	1211
55°	1158	1221	1364	1498	1562	1037
65°	731	804	916	1045	1104	725
75°	333	395	502	620	697	359
85°	62	89	122	143	149	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2525	2525	2525	2525	2525
2.5°	2530	2526	2523	2517	2513
5°	2518	2517	2514	2512	2508
7.5°	2503	2501	2503	2502	2500
10°	2479	2480	2484	2490	2488
12.5°	2452	2453	2462	2471	2475
15°	2419	2420	2436	2452	2457
17.5°	2376	2386	2403	2427	2435
20°	2333	2339	2368	2399	2412
22.5°	2275	2291	2326	2368	2382
25°	2222	2234	2282	2332	2356
27.5°	2158	2175	2233	2297	2327
30°	2091	2107	2176	2252	2292
32.5°	2013	2042	2124	2214	2254
35°	1930	1969	2056	2170	2206
37.5°	1848	1883	1990	2109	2167
40°	1754	1808	1919	2054	2102
42.5°	1666	1712	1846	1977	2030
45°	1575	1621	1765	1899	1950
47.5°	1468	1534	1675	1813	1857
50°	1375	1432	1580	1708	1779
52.5°	1262	1334	1466	1609	1663
55°	1158	1221	1364	1498	1562
57.5°	1059	1120	1258	1388	1455
60°	942	1008	1142	1263	1327
62.5°	839	908	1037	1154	1220
65°	731	804	916	1045	1104
67.5°	629	696	808	933	1003
70°	522	591	696	829	891
72.5°	427	484	596	719	795
75°	333	395	502	620	697
77.5°	251	310	406	527	585
80°	179	227	314	408	442
82.5°	110	159	209	273	276
85°	62	89	122	143	149
87.5°	21	32	48	57	59
90°	0	0	0	0	0

(END OF REPORT)