

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: P31381

Luminaire Tested: **E3-WL-2T5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P31381
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E3-WL-2T5-1C-UNV-24-T1
Description: CORELITE 2X4 CLASS E RECESSED FIXTURE WITH FROSTED ROUND PRISMATIC MIDDLE LENS WITH PRISMS FACING UP RUNNING PARALLEL TO LAMPS AND TWO FROSTED LENS ON SIDES
Light Source: (2) BIPIN T5 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K FP54/850C/HO/ECO 54W
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST QHE2X54T5HO/UNV PSN

Summary

Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 8676.9 lumens
Efficiency: 86.8%
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.39 / 1.43
Luminous Opening: Rectangular (W 1.77' x L: 3.69' x H: 0')
CIE Type: Direct

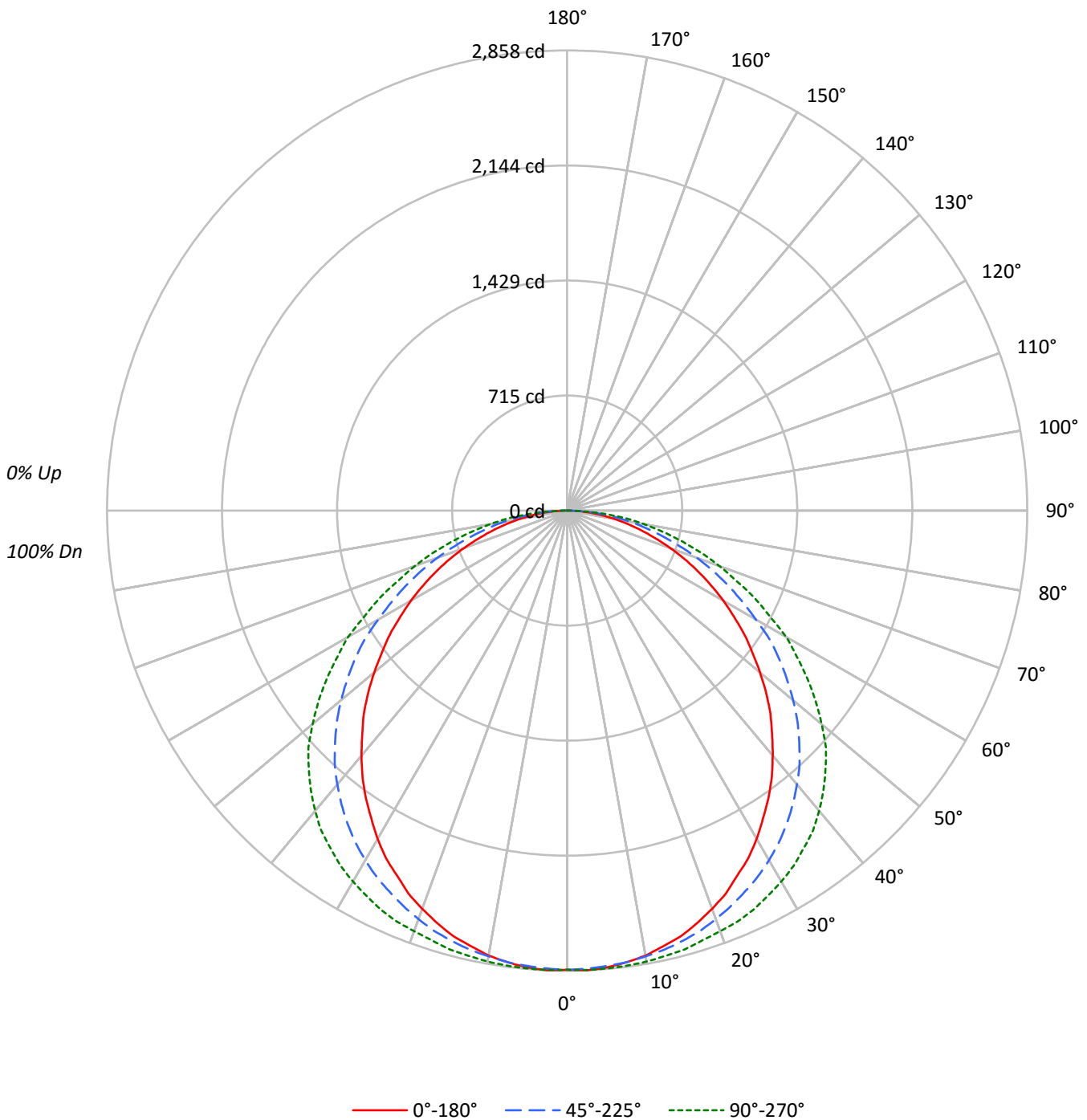
Input Watts (W): 115.2
Input Voltage (V): 120.05
Input Current (A_{in}): 0.9613
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	101	101	101	101	96	96	96	92	92	92	89	89	89	87				87
1	94	90	86	82	92	88	84	81	84	81	79	81	78	76	77	76	74	72				72
2	85	78	72	67	83	76	71	66	73	68	64	70	66	63	68	64	61	60				60
3	78	68	61	55	75	67	60	55	64	58	54	62	57	53	60	55	52	50				50
4	71	60	53	47	69	59	52	46	57	51	46	55	49	45	53	48	44	42				42
5	65	54	46	40	63	53	45	40	51	44	39	49	43	39	48	42	38	37				37
6	60	48	40	35	58	47	40	35	46	39	34	44	38	34	43	38	34	32				32
7	56	44	36	31	54	43	36	30	42	35	30	40	34	30	39	34	30	28				28
8	52	40	32	27	50	39	32	27	38	32	27	37	31	27	36	31	27	25				25
9	48	37	29	24	47	36	29	24	35	29	24	34	28	24	33	28	24	22				22
10	45	34	27	22	44	33	27	22	32	26	22	32	26	22	31	26	22	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4701	4701	4701
5°	4713	4698	4722
10°	4697	4705	4760
15°	4667	4722	4816
20°	4617	4736	4877
25°	4547	4751	4976
30°	4481	4774	5065
35°	4387	4781	5154
40°	4276	4779	5240
45°	4163	4751	5292
50°	4011	4701	5290
55°	3868	4624	5239
60°	3696	4464	5186
65°	3506	4314	5012
70°	3287	4135	4844
75°	3057	3885	4694
80°	2829	3759	4575
85°	2572	3575	4312



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	270.8	3.1	2.7
10°-20°	783.2	9.0	7.8
20°-30°	1207.2	13.9	12.1
30°-40°	1485.4	17.1	14.9
40°-50°	1566.6	18.1	15.7
50°-60°	1424.3	16.4	14.2
60°-70°	1087.1	12.5	10.9
70°-80°	647.6	7.5	6.5
80°-90°	204.5	2.4	2.0
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°	2261.2	26.1	22.6
0°-40°	3746.7	43.2	37.5
0°-60°	6737.6	77.7	67.4
0°-90°	8676.9	100.0	86.8
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°	8676.9	100.0	86.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2852	2852	2852	2852	2852	
5°	2848	2843	2839	2849	2854	270
15°	2735	2743	2767	2806	2822	771
25°	2500	2536	2612	2702	2736	1154
35°	2180	2241	2376	2514	2561	1362
45°	1786	1862	2038	2205	2270	1374
55°	1346	1421	1609	1764	1823	1200
65°	899	963	1106	1235	1285	891
75°	480	521	610	697	737	509
85°	136	148	189	225	228	151
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2852	2852	2852	2852	2852
2.5°	2858	2854	2847	2855	2856
5°	2848	2843	2839	2849	2854
7.5°	2830	2830	2829	2844	2851
10°	2806	2805	2811	2836	2844
12.5°	2770	2778	2793	2821	2832
15°	2735	2743	2767	2806	2822
17.5°	2686	2700	2739	2783	2798
20°	2632	2652	2700	2761	2780
22.5°	2575	2600	2659	2734	2763
25°	2500	2536	2612	2702	2736
27.5°	2436	2473	2564	2661	2698
30°	2354	2402	2508	2618	2661
32.5°	2265	2323	2446	2568	2617
35°	2180	2241	2376	2514	2561
37.5°	2087	2149	2302	2447	2508
40°	1987	2055	2221	2377	2435
42.5°	1883	1963	2137	2294	2356
45°	1786	1862	2038	2205	2270
47.5°	1676	1756	1940	2102	2180
50°	1564	1645	1833	2004	2063
52.5°	1451	1540	1721	1886	1947
55°	1346	1421	1609	1764	1823
57.5°	1228	1309	1492	1635	1692
60°	1121	1196	1354	1514	1573
62.5°	1009	1074	1227	1372	1416
65°	899	963	1106	1235	1285
67.5°	792	850	982	1093	1134
70°	682	732	858	966	1005
72.5°	575	625	730	826	873
75°	480	521	610	697	737
77.5°	385	419	501	581	609
80°	298	321	396	457	482
82.5°	212	234	292	345	368
85°	136	148	189	225	228
87.5°	59	73	87	83	95
90°	0	0	0	0	0

(END OF REPORT)