

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: METALUX

Report Number: 14003

Luminaire Tested: **VT3-354T5DR-UNV-EHT1-M4-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 14003  
Test Lab: BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VT3-354T5DR-UNV-EHT1-M4-WL-U  
Description: MOLDED ACRYLIC HOUSING, FORMED SPECULAR REFLECTOR,  
WITH CLEAR LINEAR PRISMATIC AND PATTERNED LENS  
Light Source: -  
THREE 54 WATT FP54T5/835/HO - 4400 Lumens  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 4400 (3 lamps)  
Luminaire Lumens: 7837.6 lumens  
Efficiency: 59.4%  
Efficacy: 52.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.54' x L: 4.15' x H: 0.16')  
CIE Type: Direct

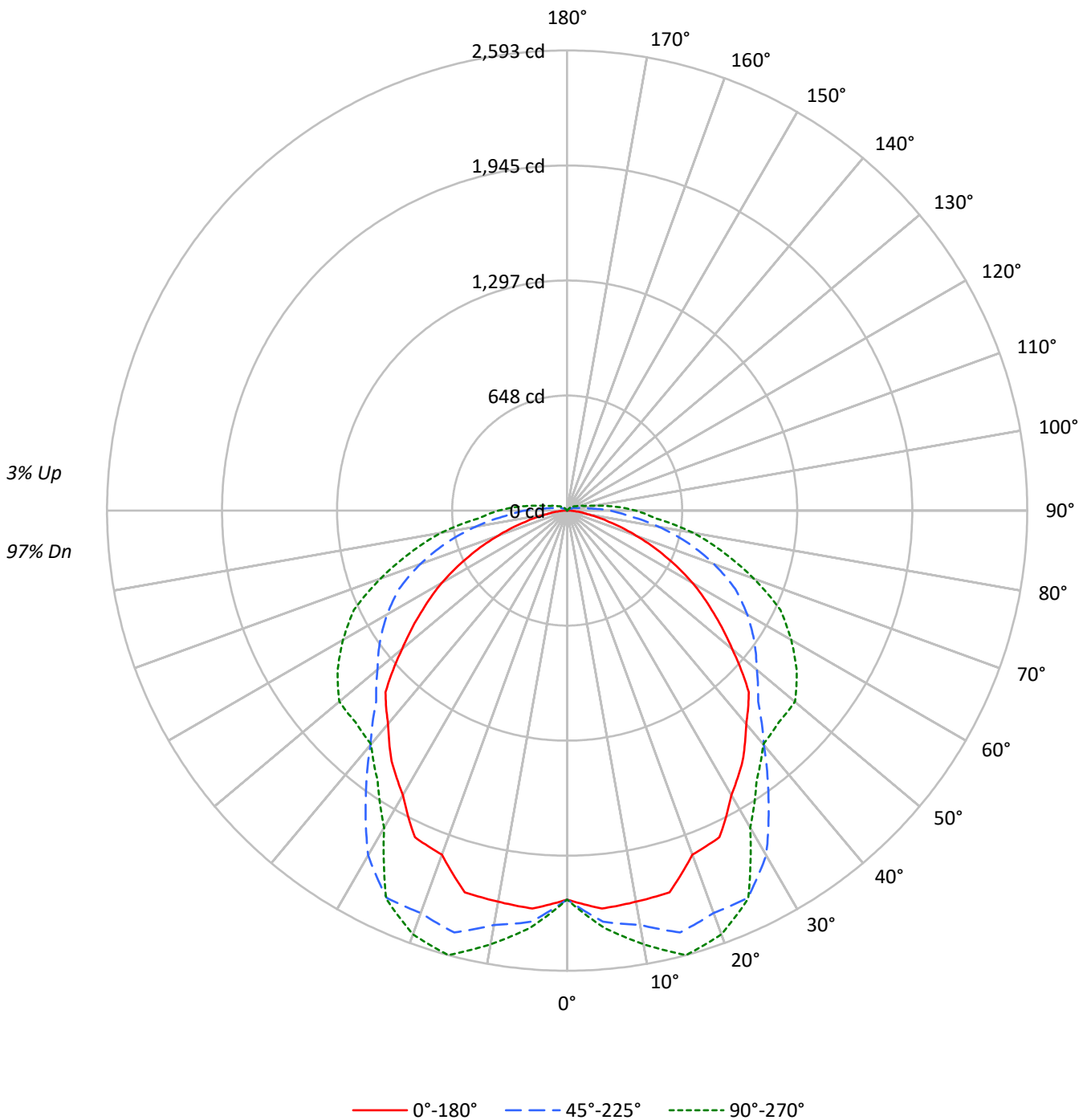
Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	70	70	70	70	68	68	68	68	65	65	65	62	62	62	59	59	59	57
1	63	60	57	55	61	58	56	53	56	53	51	53	51	49	50	49	48	46
2	57	52	47	44	55	51	47	43	48	45	42	46	43	40	44	41	39	38
3	52	45	40	36	50	44	39	36	42	38	35	40	37	34	38	35	33	32
4	47	40	35	30	46	39	34	30	37	33	29	36	32	29	34	31	28	27
5	44	36	30	26	42	35	30	26	33	29	25	32	28	25	31	27	24	23
6	40	32	27	23	39	31	26	22	30	26	22	29	25	22	28	24	21	20
7	37	29	24	20	36	28	23	20	27	23	20	26	22	19	25	22	19	18
8	35	26	21	18	34	26	21	18	25	21	17	24	20	17	23	20	17	16
9	32	24	19	16	31	24	19	16	23	19	16	22	18	15	21	18	15	14
10	30	22	18	14	30	22	17	14	21	17	14	21	17	14	20	16	14	13

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

	0°	45°	90°
0°	10500	10500	10500
5°	10788	10964	11060
10°	10814	11083	11489
15°	10934	11495	11938
20°	10374	11350	11724
25°	10549	11494	11244
30°	10020	10951	9785
35°	9822	9961	9057
40°	9517	9035	8658
45°	9453	8381	8874
50°	8658	8158	9300
55°	7989	8096	9351
60°	7348	8028	9321
65°	6398	7931	9293
70°	5255	7551	8744
75°	3960	7019	8138
80°	2637	6271	7556
85°	1845	5283	6380



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	221.8	2.8	1.7	0°	2192	2192	2192	2192	2192	
10°-20°	680.7	8.7	5.2	5°	2251	2283	2326	2363	2358	214
20°-30°	1047.6	13.4	7.9	15°	2227	2318	2461	2578	2593	618
30°-40°	1189.5	15.2	9.0	25°	2031	2206	2408	2445	2413	921
40°-50°	1239.5	15.8	9.4	35°	1724	1962	1978	1845	1861	1076
50°-60°	1166.4	14.9	8.8	45°	1448	1703	1522	1666	1687	1097
60°-70°	983.7	12.6	7.5	55°	1008	1108	1288	1500	1580	905
70°-80°	683.9	8.7	5.2	65°	610	742	1045	1230	1326	606
80°-90°	362.8	4.6	2.7	75°	244	429	705	864	912	268
90°-100°	153.7	2.0	1.2	85°	48	174	349	472	498	55
100°-110°	58.0	0.7	0.4	90°	11	90	238	355	387	10
110°-120°	28.5	0.4	0.2	95°	5	42	127	223	260	3
120°-130°	15.5	0.2	0.1	105°	0	5	53	90	100	0
130°-140°	5.7	0.1	0.0	115°	0	0	32	48	58	0
140°-150°	0.1	0.0	0.0	125°	0	0	21	32	37	0
150°-160°	0.0	0.0	0.0	135°	0	0	5	16	21	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1950.2	24.9	14.8	165°	0	0	0	0	0	0
0°-40°	3139.7	40.1	23.8	175°	0	0	0	0	0	0
0°-60°	5545.6	70.8	42.0	180°	0	0	0	0	0	0
0°-90°	7576.0	96.7	57.4							
90°-120°	240.3	3.1	1.8							
90°-150°	261.6	3.3	2.0							
90°-180°	262.0	3.3	2.0							
0°-180°	7837.6	100.0	59.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2192	2192	2192	2192	2192
5°	2251	2283	2326	2363	2358
10°	2238	2297	2371	2467	2482
15°	2227	2318	2461	2578	2593
20°	2063	2201	2413	2493	2541
25°	2031	2206	2408	2445	2413
30°	1851	2063	2243	2079	2063
35°	1724	1962	1978	1845	1861
40°	1570	1819	1724	1703	1719
45°	1448	1703	1522	1666	1687
50°	1214	1416	1395	1591	1676
55°	1008	1108	1288	1500	1580
60°	817	912	1172	1390	1458
65°	610	742	1045	1230	1326
70°	414	589	880	1066	1118
75°	244	429	705	864	912
80°	116	286	524	678	721
85°	48	174	349	472	498
90°	11	90	238	355	387
95°	5	42	127	223	260
100°	0	26	79	137	158
105°	0	5	53	90	100
110°	0	2	48	69	79
115°	0	0	32	48	58
120°	0	0	21	37	48
125°	0	0	21	32	37
130°	0	0	16	21	28
135°	0	0	5	16	21
140°	0	0	2	0	0
145°	0	0	0	0	0
150°	0	0	0	0	0
155°	0	0	0	0	0
160°	0	0	0	0	0
165°	0	0	0	0	0
170°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)