

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: 13881

Luminaire Tested: **VT3-254T5DR-UNV-EHT1-WL-M4-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 13881
Test Lab: BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT3-254T5DR-UNV-EHT1-WL-M4-U
Description: MOLDED ACRYLIC HOUSING, FORMED SPECULAR REFLECTOR,
WITH CLEAR LINEAR PRISMATIC AND PATTERNED LENS

Light Source: -
TWO 54 WATT FP54T5/835 - 4400 Lumens
Ballast/Driver: -

Summary

Lumens per Lamp: 4400 (2 lamps)
Luminaire Lumens: 6304.5 lumens
Efficiency: 71.6%
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.13 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.54' x L: 4.15' x H: 0.16')
CIE Type: Direct

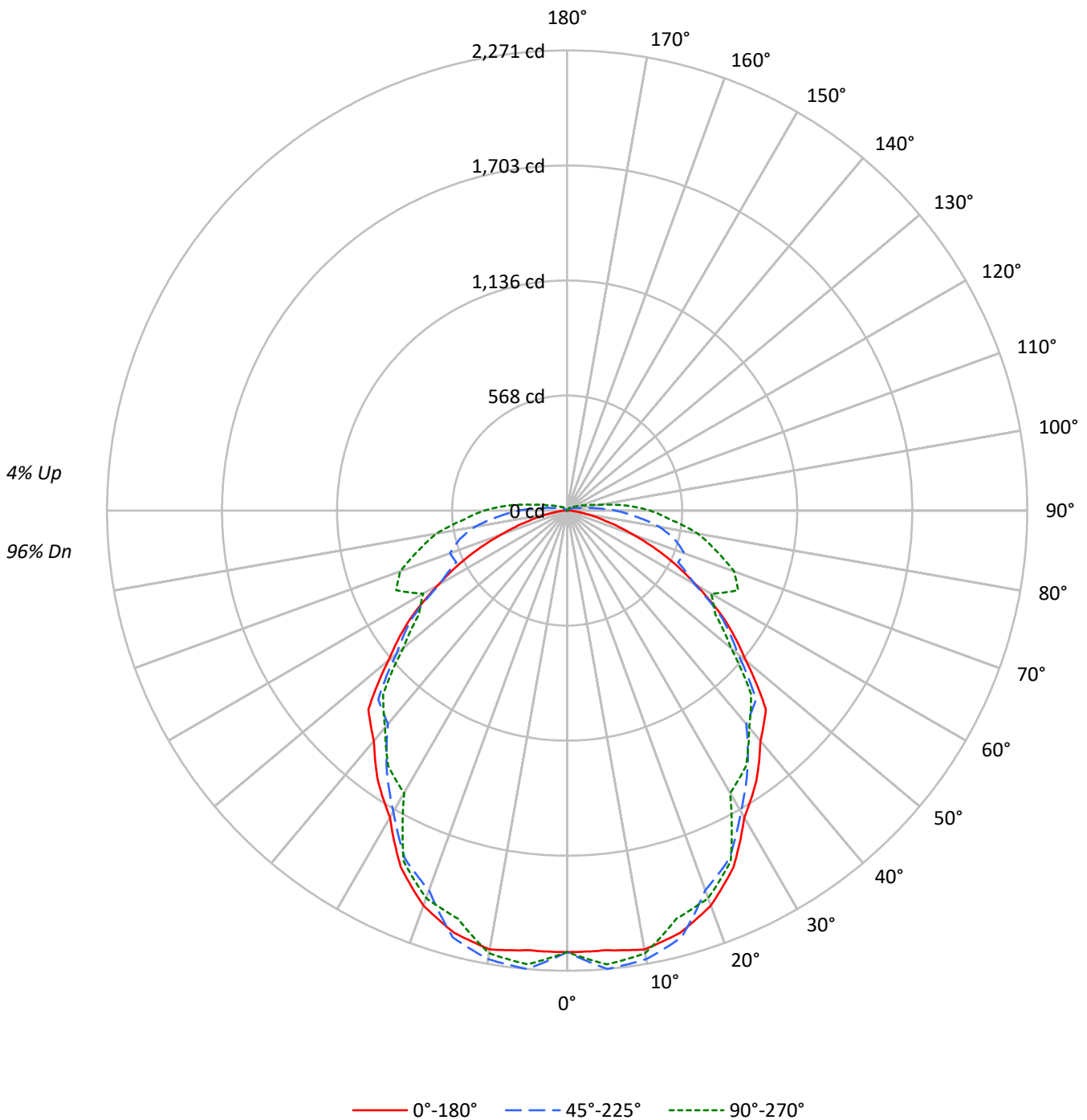
Input Watts (W): 96
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	85	85	85	85	82	82	82	82	78	78	78	74	74	74	70	70	70	70	70	70	69	
1	76	72	69	66	74	70	67	64	67	64	62	63	61	59	60	59	57	57	57	57	55	
2	69	63	57	53	67	61	56	52	58	54	51	55	52	49	53	50	47	47	47	47	46	
3	63	55	49	44	61	54	48	44	51	46	42	49	45	41	47	43	40	43	43	43	38	
4	58	49	42	37	56	48	42	37	46	40	36	43	39	35	42	38	35	38	38	38	33	
5	53	44	37	32	51	43	37	32	41	36	31	39	35	31	38	33	30	33	33	33	29	
6	49	40	33	28	48	39	33	28	37	32	28	36	31	27	34	30	27	31	31	31	25	
7	46	36	30	25	44	35	29	25	34	28	25	33	28	24	31	27	24	27	27	27	22	
8	43	33	27	23	41	32	26	22	31	26	22	30	25	22	29	25	21	25	25	25	20	
9	40	30	24	20	39	30	24	20	29	24	20	28	23	20	27	23	19	23	23	23	18	
10	37	28	22	19	36	27	22	18	27	22	18	26	21	18	25	21	18	21	21	21	16	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10438	10438	10438
5°	10438	10704	10544
10°	10625	10508	10272
15°	10590	10187	9599
20°	10429	9379	9390
25°	10087	9045	8900
30°	9468	8378	7636
35°	9276	7821	7490
40°	8995	7206	7041
45°	9055	7258	6754
50°	8209	6433	5854
55°	7592	5908	5285
60°	6620	4973	5242
65°	5684	4584	6525
70°	4354	5277	6851
75°	3148	5476	6772
80°	2092	5541	6864
85°	1422	5117	6547



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	213.2	3.4	2.4	0°	2179	2179	2179	2179	2179	
10°-20°	605.9	9.6	6.9	5°	2178	2232	2271	2257	2248	209
20°-30°	870.0	13.8	9.9	15°	2157	2213	2181	2091	2085	607
30°-40°	972.5	15.4	11.1	25°	1942	1941	1895	1907	1910	888
40°-50°	994.7	15.8	11.3	35°	1628	1546	1553	1553	1539	1017
50°-60°	824.8	13.1	9.4	45°	1387	1339	1318	1275	1284	1044
60°-70°	681.5	10.8	7.7	55°	958	905	940	888	893	850
70°-80°	541.6	8.6	6.2	65°	542	590	604	834	931	535
80°-90°	343.6	5.5	3.9	75°	194	296	550	717	759	217
90°-100°	159.4	2.5	1.8	85°	37	157	338	464	511	43
100°-110°	55.9	0.9	0.6	90°	12	86	238	369	409	9
110°-120°	24.9	0.4	0.3	95°	6	38	132	245	287	4
120°-130°	11.7	0.2	0.1	105°	0	12	49	85	100	0
130°-140°	4.5	0.1	0.1	115°	0	0	27	43	49	0
140°-150°	0.3	0.0	0.0	125°	0	0	12	26	29	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	16	18	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°	1689.1	26.8	19.2	165°	0	0	0	0	0	0
0°-40°	2661.6	42.2	30.2	175°	0	0	0	0	0	0
0°-60°	4481.1	71.1	50.9	180°	0	0	0	0	0	0
0°-90°	6047.9	95.9	68.7							
90°-120°	240.2	3.8	2.7							
90°-150°	256.6	4.1	2.9							
90°-180°	257.0	4.1	2.9							
0°-180°	6304.5	100.0	71.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2179	2179	2179	2179	2179
5°	2178	2232	2271	2257	2248
10°	2199	2292	2248	2209	2219
15°	2157	2213	2181	2091	2085
20°	2074	2085	1994	2028	2035
25°	1942	1941	1895	1907	1910
30°	1749	1695	1716	1618	1610
35°	1628	1546	1553	1553	1539
40°	1484	1429	1375	1410	1398
45°	1387	1339	1318	1275	1284
50°	1151	1126	1100	1086	1055
55°	958	905	940	888	893
60°	736	747	726	769	820
65°	542	590	604	834	931
70°	343	413	615	811	876
75°	194	296	550	717	759
80°	92	231	463	605	655
85°	37	157	338	464	511
90°	12	86	238	369	409
95°	6	38	132	245	287
100°	0	20	72	135	163
105°	0	12	49	85	100
110°	0	9	37	61	71
115°	0	0	27	43	49
120°	0	0	18	32	38
125°	0	0	12	26	29
130°	0	0	0	21	24
135°	0	0	0	16	18
140°	0	0	0	0	16
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)