

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: 10777

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 10777
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT3-254T5DR-UNV-EHT1-WL-U
Description: MOLDED ACRYLIC HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR,
CLEAR LINEAR PRISMATIC AND PATTERNED LENS.
Light Source: TWO - Philips - F54T5/841/HO/ALTO - 4400 Lumens ea. - 54 Watts ea.

Ballast/Driver: ONE - ADVANCE ICN-2S54

Summary

Lumens per Lamp: 4400 (2 lamps)
Luminaire Lumens: 6137.2 lumens
Efficiency: 69.7%
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.47 / 1.53
Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 4.1' x H: 0.16')
CIE Type: Direct

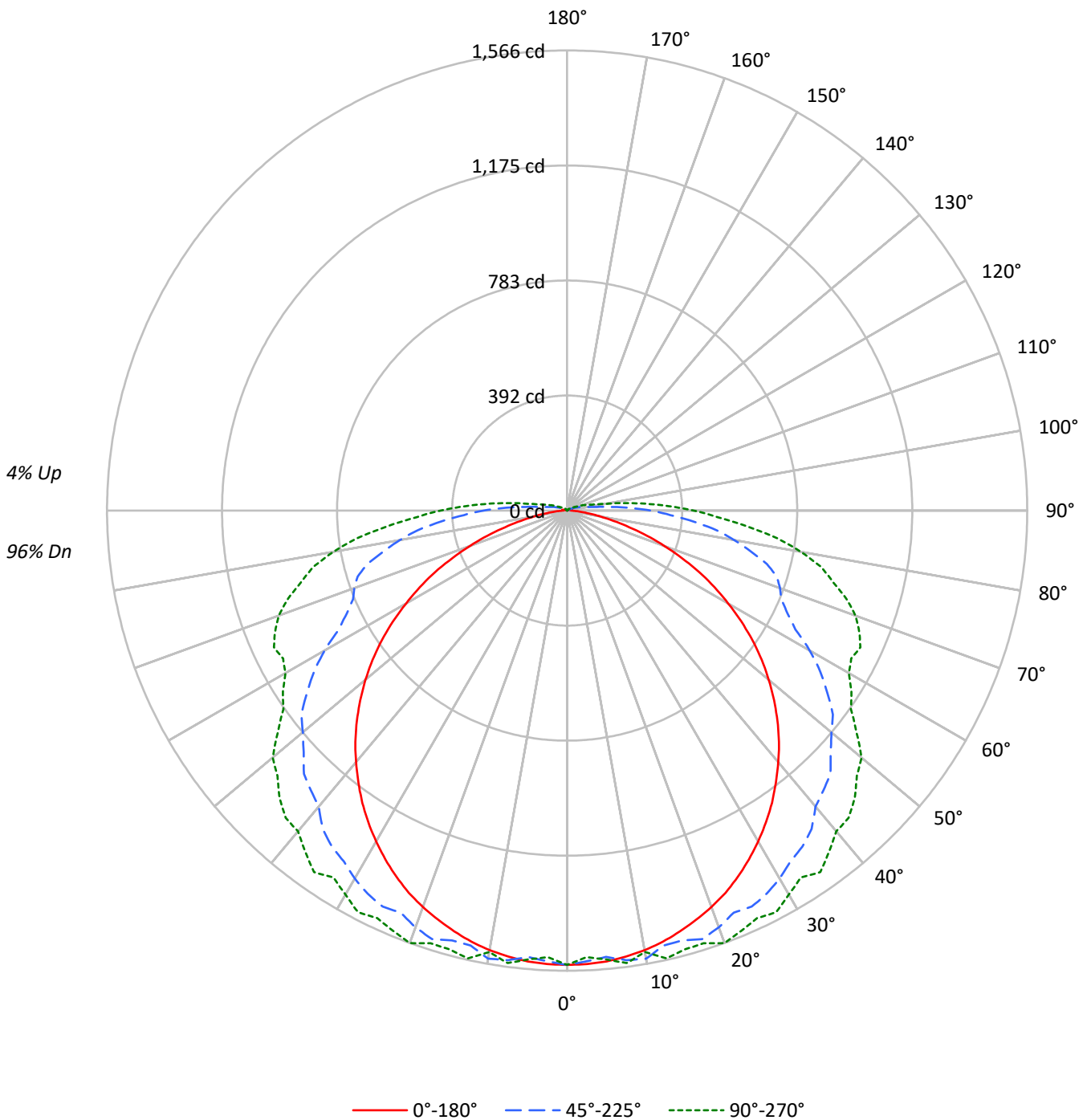
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	82	82	82	80	80	80	80	76	76	76	72	72	72	69	69	69	67
1	73	69	65	62	71	67	64	61	64	61	58	60	58	56	57	55	54	52
2	66	59	53	49	63	57	52	48	54	50	46	52	48	45	49	46	43	42
3	59	51	45	39	57	50	44	39	47	42	38	45	40	37	43	39	36	34
4	54	45	38	33	52	44	37	32	41	36	32	39	35	31	38	34	30	28
5	49	40	33	28	48	39	32	28	37	31	27	35	30	26	34	29	26	24
6	46	36	29	24	44	35	28	24	33	28	23	32	27	23	30	26	22	21
7	42	32	26	21	41	31	25	21	30	25	20	29	24	20	28	23	20	18
8	39	29	23	19	38	29	23	18	27	22	18	26	21	18	25	21	18	16
9	37	27	21	17	35	26	20	16	25	20	16	24	19	16	23	19	16	14
10	34	25	19	15	33	24	19	15	23	18	15	22	18	14	22	17	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8456	8456	8456
5°	8426	8184	8178
10°	8379	8216	7999
15°	8310	8008	8036
20°	8241	8015	8129
25°	8150	7993	7991
30°	8029	7927	7992
35°	7897	7870	8131
40°	7729	7690	7951
45°	7534	7758	8029
50°	7285	7604	7965
55°	6955	7491	7617
60°	6496	7167	7677
65°	5923	6840	8309
70°	5084	7154	8714
75°	4040	7504	8815
80°	2914	7302	8794
85°	2040	6762	8011



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	146.2	2.4	1.7	0°	1546	1546	1546	1546	1546	
10°-20°	429.5	7.0	4.9	5°	1540	1525	1525	1525	1533	146
20°-30°	677.1	11.0	7.7	15°	1483	1503	1514	1554	1546	419
30°-40°	857.7	14.0	9.7	25°	1375	1402	1487	1521	1530	633
40°-50°	949.0	15.5	10.8	35°	1215	1278	1396	1441	1502	759
50°-60°	922.6	15.0	10.5	45°	1012	1120	1267	1355	1384	780
60°-70°	821.0	13.4	9.3	55°	770	901	1081	1154	1179	687
70°-80°	674.7	11.0	7.7	65°	496	675	827	1016	1101	489
80°-90°	425.4	6.9	4.8	75°	219	399	704	868	936	236
90°-100°	162.8	2.7	1.9	85°	47	219	432	570	614	52
100°-110°	47.7	0.8	0.5	90°	13	116	285	394	431	9
110°-120°	16.6	0.3	0.2	95°	17	49	142	233	268	13
120°-130°	5.0	0.1	0.1	105°	11	14	47	67	76	12
130°-140°	1.4	0.0	0.0	115°	4	4	15	27	29	4
140°-150°	0.5	0.0	0.0	125°	0	1	3	10	13	0
150°-160°	0.0	0.0	0.0	135°	0	0	1	3	5	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	2	2	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1252.8	20.4	14.2	165°	0	0	0	0	0	0
0°-40°	2110.5	34.4	24.0	175°	0	0	0	0	0	0
0°-60°	3982.1	64.9	45.3	180°	0	0	0	0	0	0
0°-90°	5903.2	96.2	67.1							
90°-120°	227.1	3.7	2.6							
90°-150°	234.0	3.8	2.7							
90°-180°	234.0	3.8	2.7							
0°-180°	6137.2	100.0	69.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1546	1546	1546	1546	1546
2.5°	1545	1537	1535	1521	1521
5°	1540	1525	1525	1525	1533
7.5°	1531	1512	1543	1556	1553
10°	1519	1506	1548	1518	1525
12.5°	1503	1507	1516	1538	1561
15°	1483	1503	1514	1554	1546
17.5°	1460	1482	1529	1520	1544
20°	1436	1453	1509	1544	1566
22.5°	1408	1423	1481	1536	1548
25°	1375	1402	1487	1521	1530
27.5°	1339	1385	1470	1501	1541
30°	1300	1359	1446	1508	1509
32.5°	1259	1318	1415	1464	1480
35°	1215	1278	1396	1441	1502
37.5°	1167	1246	1366	1452	1464
40°	1118	1211	1315	1408	1425
42.5°	1067	1169	1291	1370	1418
45°	1012	1120	1267	1355	1384
47.5°	955	1069	1216	1314	1337
50°	896	1018	1174	1267	1308
52.5°	835	965	1140	1225	1242
55°	770	901	1081	1154	1179
57.5°	703	851	1022	1093	1147
60°	634	795	954	1057	1107
62.5°	565	733	876	1023	1090
65°	496	675	827	1016	1101
67.5°	423	608	789	1007	1076
70°	352	528	771	968	1044
72.5°	285	456	748	935	996
75°	219	399	704	868	936
77.5°	161	364	639	819	885
80°	113	331	578	753	807
82.5°	74	279	514	671	722
85°	47	219	432	570	614
87.5°	25	165	352	475	513
90°	13	116	285	394	431
92.5°	12	75	210	310	346
95°	17	49	142	233	268
97.5°	17	36	93	161	193
100°	16	27	69	110	133
102.5°	13	20	57	82	95
105°	11	14	47	67	76
107.5°	8	11	36	57	62
110°	7	8	28	46	51



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5	5	20	35	37
115°	4	4	15	27	29
117.5°	3	3	11	21	23
120°	2	2	8	16	19
122.5°	1	1	5	13	15
125°	0	1	3	10	13
127.5°	0	1	2	8	10
130°	0	1	2	6	9
132.5°	0	0	1	4	7
135°	0	0	1	3	5
137.5°	0	0	0	3	4
140°	0	0	0	3	3
142.5°	0	0	0	2	2
145°	0	0	0	2	2
147.5°	0	0	0	2	1
150°	0	0	0	1	1
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)