

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: 10867

Luminaire Tested: **VT3-154T5DR-UNV-EBT1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 10867
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT3-154T5DR-UNV-EBT1-WL-U
Description: MOLDED ACRYLIC HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR,
CLEAR LINEAR PRISMATIC AND PATTERNED LENS.
Light Source: ONE - Philips F54T5/841/HO/ALTO - 54 WATTS Ea. - 4400 Lumens Ea.

Ballast/Driver: ONE - ADVANCE - ICN-2S54

Summary

Lumens per Lamp: 4400 (1 lamp)
Luminaire Lumens: 3719.6 lumens
Efficiency: 84.5%
Efficacy: 62.0 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

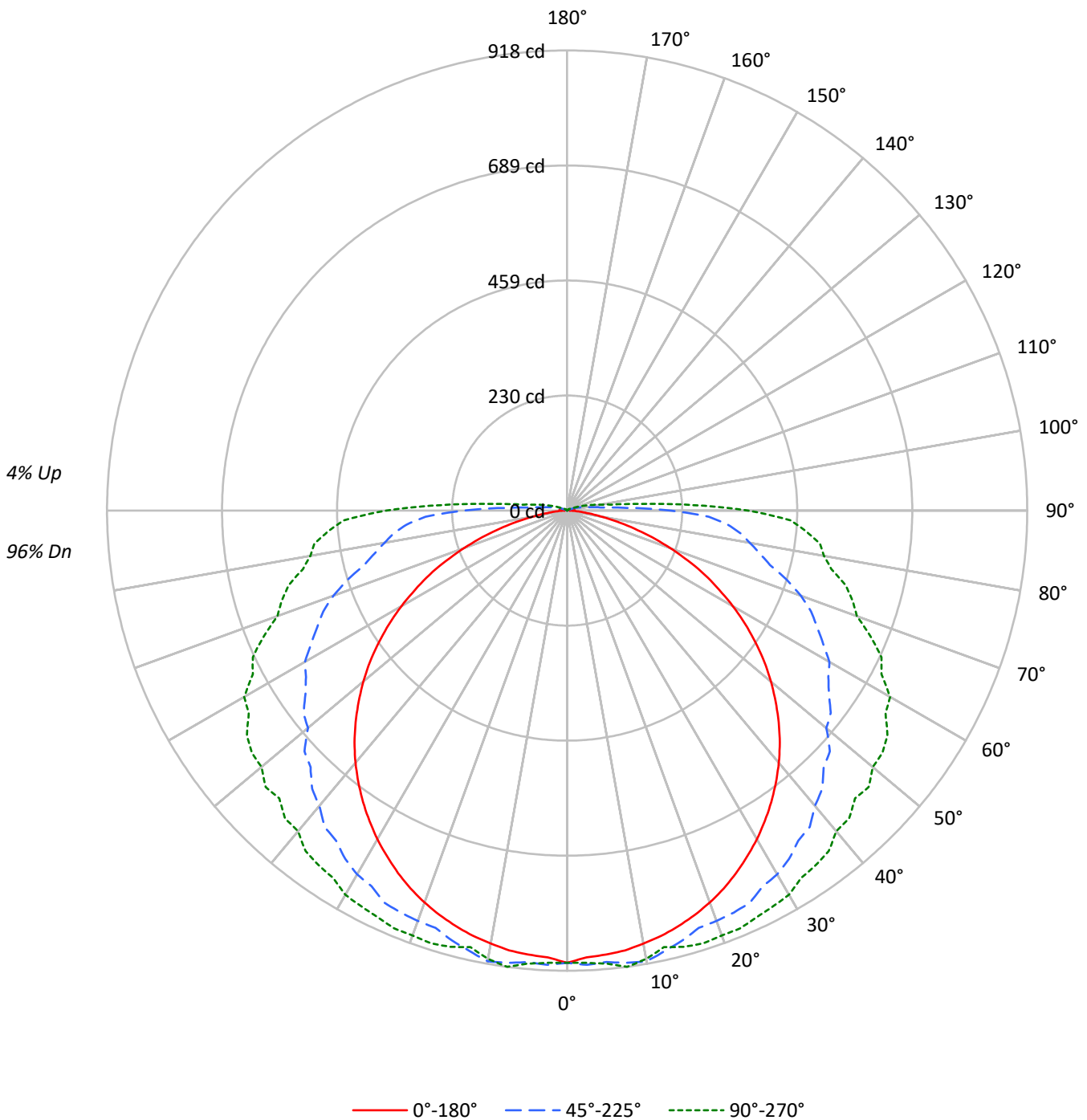
Input Watts (W): 60
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	0														
RCR																																						
0	100	100	100	100	97	97	97	97	92	92	92	88	88	88	83	83	83	81																				
1	88	83	78	74	85	81	76	72	76	73	69	72	69	67	69	66	64	62																				
2	79	71	64	58	76	69	62	57	65	60	55	62	57	53	59	55	52	49																				
3	71	61	53	47	69	59	52	46	56	50	45	53	48	44	51	46	42	40																				
4	65	53	45	39	63	52	44	38	49	43	37	47	41	36	45	40	36	34																				
5	59	47	39	33	57	46	38	32	44	37	32	42	36	31	40	35	30	28																				
6	55	42	34	28	53	41	34	28	40	33	27	38	32	27	36	31	26	25																				
7	51	38	30	25	49	37	30	24	36	29	24	34	28	24	33	27	23	21																				
8	47	35	27	22	45	34	27	22	33	26	21	31	25	21	30	25	21	19																				
9	44	32	24	20	42	31	24	19	30	24	19	29	23	19	28	22	19	17																				
10	41	29	22	18	40	29	22	17	28	21	17	27	21	17	26	20	17	15																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4933	4933	4933
5°	4864	4852	4839
10°	4837	4846	4763
15°	4808	4697	4684
20°	4775	4626	4682
25°	4730	4639	4675
30°	4676	4594	4687
35°	4615	4533	4677
40°	4542	4497	4659
45°	4444	4433	4711
50°	4317	4372	4847
55°	4146	4414	5039
60°	3914	4538	5160
65°	3619	4549	5223
70°	3163	4602	5133
75°	2564	4466	5415
80°	1805	4674	5667
85°	1085	5040	6249



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	86.2	2.3	2.0	0°	902	902	902	902	902	
10°-20°	250.6	6.7	5.7	5°	889	898	904	903	907	85
20°-30°	393.5	10.6	8.9	15°	858	884	888	891	901	242
30°-40°	498.1	13.4	11.3	25°	798	821	863	889	895	368
40°-50°	554.3	14.9	12.6	35°	710	738	804	847	864	444
50°-60°	564.3	15.2	12.8	45°	597	644	724	795	812	460
60°-70°	515.4	13.9	11.7	55°	459	525	637	739	780	410
70°-80°	415.5	11.2	9.4	65°	303	383	550	657	692	298
80°-90°	306.1	8.2	7.0	75°	139	257	419	529	575	148
90°-100°	101.0	2.7	2.3	85°	25	140	322	435	479	30
100°-110°	25.0	0.7	0.6	90°	5	76	207	319	361	4
110°-120°	6.5	0.2	0.1	95°	13	27	70	124	151	10
120°-130°	2.4	0.1	0.1	105°	9	7	24	35	40	10
130°-140°	0.8	0.0	0.0	115°	3	1	6	10	10	3
140°-150°	0.0	0.0	0.0	125°	1	0	2	5	5	1
150°-160°	0.0	0.0	0.0	135°	0	0	1	2	2	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°	730.3	19.6	16.6	165°	0	0	0	0	0	0
0°-40°	1228.4	33.0	27.9	175°	0	0	0	0	0	0
0°-60°	2347.1	63.1	53.3	180°	0	0	0	0	0	0
0°-90°	3584.0	96.4	81.5							
90°-120°	132.5	3.6	3.0							
90°-150°	135.6	3.6	3.1							
90°-180°	136.0	3.7	3.1							
0°-180°	3719.6	100.0	84.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902	902	902	902	902
2.5°	892	902	907	903	903
5°	889	898	904	903	907
7.5°	885	893	910	917	918
10°	877	889	913	905	908
12.5°	869	887	900	891	892
15°	858	884	888	891	901
17.5°	846	875	873	894	905
20°	832	860	871	898	902
22.5°	816	841	868	885	902
25°	798	821	863	889	895
27.5°	778	799	845	874	890
30°	757	776	838	873	885
32.5°	734	757	824	858	869
35°	710	738	804	847	864
37.5°	684	721	795	831	857
40°	657	696	769	826	835
42.5°	628	668	753	796	833
45°	597	644	724	795	812
47.5°	564	618	711	771	816
50°	531	585	675	771	796
52.5°	496	559	663	756	793
55°	459	525	637	739	780
57.5°	421	493	618	731	753
60°	382	456	604	696	744
62.5°	342	419	576	683	707
65°	303	383	550	657	692
67.5°	261	352	527	622	655
70°	219	322	496	588	615
72.5°	178	290	459	561	597
75°	139	257	419	529	575
77.5°	102	230	393	504	540
80°	70	195	370	483	520
82.5°	44	162	349	464	509
85°	25	140	322	435	479
87.5°	12	111	283	403	446
90°	5	76	207	319	361
92.5°	6	42	122	213	252
95°	13	27	70	124	151
97.5°	15	19	50	78	91
100°	13	14	39	59	68
102.5°	11	10	30	46	53
105°	9	7	24	35	40
107.5°	7	5	17	27	30
110°	5	3	12	19	22



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3	1	8	12	15
115°	3	1	6	10	10
117.5°	2	1	5	8	9
120°	2	1	3	7	8
122.5°	2	0	2	6	7
125°	1	0	2	5	5
127.5°	0	0	2	4	5
130°	0	0	1	3	4
132.5°	0	0	1	3	4
135°	0	0	1	2	2
137.5°	0	0	0	1	2
140°	0	0	0	0	1
142.5°	0	0	0	0	1
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
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)