

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: P237874

Luminaire Tested: **8VRVT2-LD5-22-FR50-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P237874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-13)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VRVT2-LD5-22-FR50-UNV-L850-CD2-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
FROSTED LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (448) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22514.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

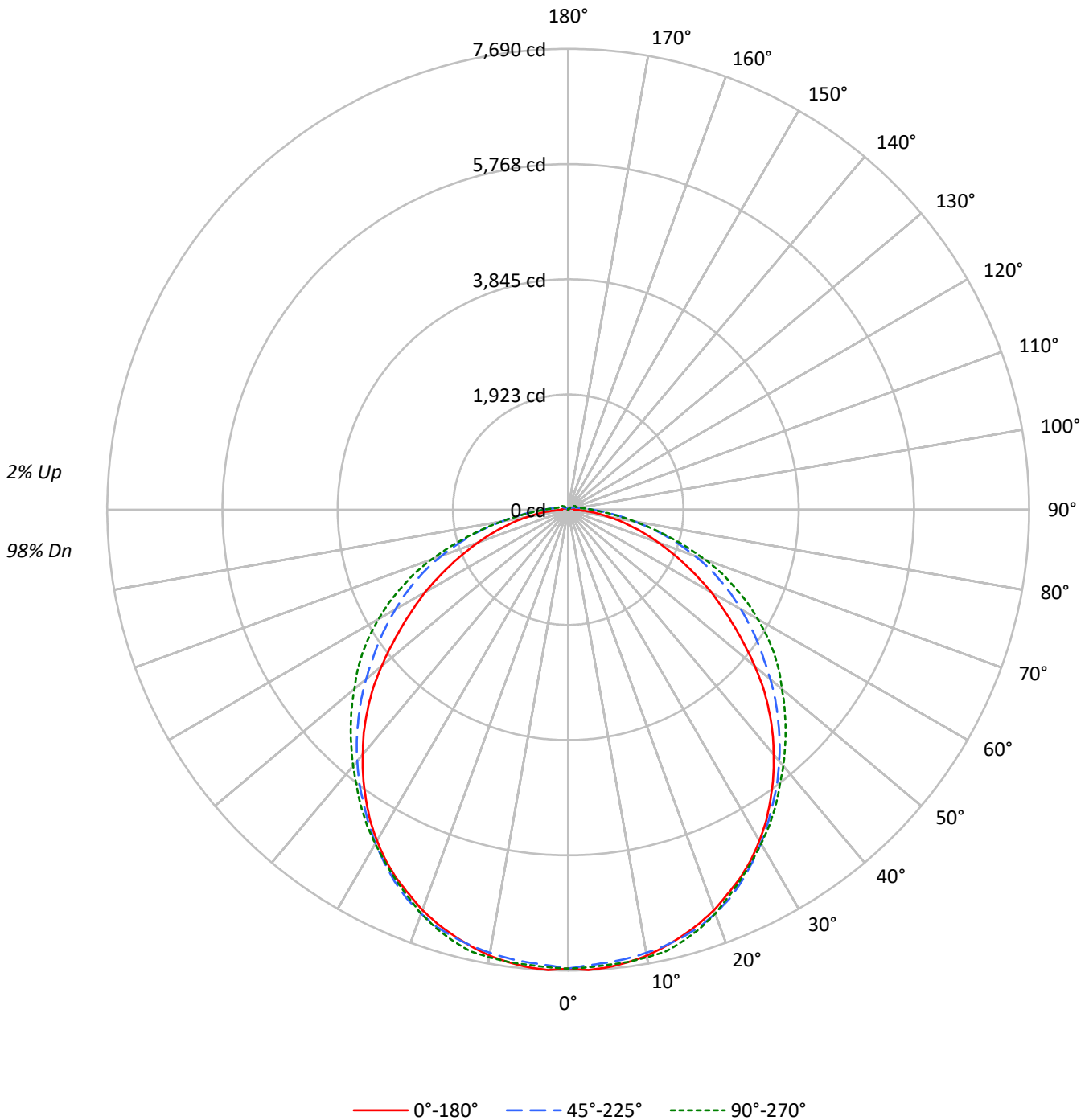
Input Watts (W): 164.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	100	100	100	100	100	100	98		
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	83	83	83	83	83	83	81		
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	72	69	69	69	69	69	69	69	67		
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	58	58	58	58	58	58	56		
4	81	69	60	54	79	68	60	53	65	58	52	62	56	51	60	55	50	50	50	50	50	50	50	48		
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	44	44	44	44	44	44	41		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	38	38	38	38	38	38	36		
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	45	39	34	34	34	34	34	34	34	32		
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	30	30	30	30	30	30	29		
9	56	42	34	29	54	42	34	28	40	33	28	39	33	28	38	32	28	28	28	28	28	28	28	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	25	25	25	25	25	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19780	19780	19780
5°	19842	19247	19216
10°	19753	18868	18791
15°	19587	18512	18281
20°	19407	18072	17583
25°	19158	17481	16796
30°	18812	16760	16096
35°	18306	15999	15425
40°	17683	15265	14707
45°	16962	14467	14055
50°	15958	13628	13391
55°	14767	12805	12802
60°	13769	12002	11963
65°	12556	11162	10915
70°	11428	10053	9559
75°	10295	8659	7691
80°	9146	6891	5762
85°	8157	5304	4099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.7	3.2
10°-20°	2088.6	9.3
20°-30°	3146.2	14.0
30°-40°	3746.8	16.6
40°-50°	3825.0	17.0
50°-60°	3427.9	15.2
60°-70°	2675.2	11.9
70°-80°	1646.9	7.3
80°-90°	686.6	3.0
90°-100°	247.3	1.1
100°-110°	133.3	0.6
110°-120°	87.2	0.4
120°-130°	49.5	0.2
130°-140°	21.9	0.1
140°-150°	5.4	0.0
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5960.5	26.5
0°-40°	9707.3	43.1
0°-60°	16960.2	75.3
0°-90°	21968.9	97.6
90°-120°	467.7	2.1
90°-150°	544.5	2.4
90°-180°	545.0	2.4
0°-180°	22514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7657	7657	7657	7657	7657	
5°	7665	7637	7584	7637	7626	728
15°	7363	7366	7385	7468	7446	2078
25°	6784	6839	6847	6836	6809	3123
35°	5886	6010	5961	6027	6033	3679
45°	4736	4858	4949	5090	5129	3645
55°	3372	3569	3857	4115	4196	3027
65°	2142	2366	2804	3034	3062	2132
75°	1108	1352	1676	1760	1729	1188
85°	338	526	690	690	665	347
90°	111	280	407	413	402	71
95°	100	158	255	266	258	80
105°	78	78	141	158	155	82
115°	42	39	97	128	133	42
125°	19	11	55	91	100	17
135°	8	6	22	50	58	7
145°	3	3	3	14	19	2
155°	3	3	3	0	0	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7656.6	7656.6	7656.6	7656.6	7656.6
2.5°	7689.8	7662.1	7609.5	7659.3	7642.7
5°	7664.9	7637.2	7584.5	7637.2	7626.1
7.5°	7617.8	7598.4	7554.0	7617.8	7612.2
10°	7556.8	7537.4	7509.7	7587.3	7584.5
12.5°	7465.4	7457.1	7454.3	7551.3	7545.7
15°	7362.8	7365.6	7385.0	7468.1	7446.0
17.5°	7246.4	7263.1	7296.3	7346.2	7324.0
20°	7110.7	7138.4	7171.6	7191.0	7171.6
22.5°	6944.4	6994.3	7027.5	7013.7	6988.7
25°	6783.7	6839.1	6847.4	6836.3	6808.6
27.5°	6595.2	6664.5	6639.6	6653.4	6622.9
30°	6379.1	6476.1	6429.0	6453.9	6434.5
32.5°	6149.1	6262.7	6199.0	6240.5	6246.1
35°	5885.8	6010.5	5960.7	6027.2	6032.7
37.5°	5619.8	5750.0	5727.9	5811.0	5797.2
40°	5331.6	5475.7	5475.7	5567.2	5581.0
42.5°	5046.2	5168.1	5220.8	5328.8	5356.6
45°	4735.8	4857.8	4949.2	5090.5	5129.3
47.5°	4417.1	4552.9	4683.2	4838.4	4896.5
50°	4065.2	4228.7	4400.5	4602.8	4655.5
52.5°	3710.5	3893.4	4117.9	4361.7	4436.5
55°	3372.4	3569.2	3857.4	4115.1	4195.5
57.5°	3051.0	3253.3	3591.4	3862.9	3932.2
60°	2757.3	2931.8	3328.1	3610.8	3652.3
62.5°	2441.3	2649.2	3070.4	3330.9	3378.0
65°	2142.1	2366.5	2804.4	3034.4	3062.1
67.5°	1859.4	2089.4	2535.6	2737.9	2771.1
70°	1596.2	1840.0	2244.6	2413.6	2424.7
72.5°	1355.1	1593.4	1956.4	2092.2	2072.8
75°	1108.4	1352.3	1676.5	1759.7	1729.2
77.5°	900.6	1122.3	1393.9	1454.8	1407.7
80°	684.5	897.8	1119.5	1141.7	1119.5
82.5°	501.6	701.1	892.3	897.8	864.6
85°	338.1	526.5	690.0	690.0	665.1
87.5°	191.2	385.2	526.5	532.1	504.3
90°	110.8	279.9	407.4	412.9	401.8
92.5°	102.5	202.3	318.7	327.0	315.9
95°	99.8	158.0	254.9	266.0	257.7
97.5°	97.0	127.5	213.4	221.7	216.1
100°	94.2	105.3	180.1	194.0	191.2
102.5°	85.9	91.4	158.0	171.8	169.0
105°	77.6	77.6	141.3	158.0	155.2
107.5°	69.3	66.5	127.5	149.6	146.9
110°	58.2	58.2	116.4	141.3	141.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.9	49.9	105.3	135.8	135.8
115°	41.6	38.8	97.0	127.5	133.0
117.5°	33.3	33.3	85.9	119.2	124.7
120°	27.7	24.9	74.8	110.8	119.2
122.5°	22.2	16.6	66.5	99.8	110.8
125°	19.4	11.1	55.4	91.4	99.8
127.5°	13.9	8.3	47.1	80.4	91.4
130°	11.1	8.3	38.8	69.3	80.4
132.5°	11.1	5.5	30.5	58.2	69.3
135°	8.3	5.5	22.2	49.9	58.2
137.5°	5.5	5.5	13.9	41.6	49.9
140°	5.5	5.5	8.3	30.5	38.8
142.5°	5.5	2.8	2.8	22.2	30.5
145°	2.8	2.8	2.8	13.9	19.4
147.5°	2.8	2.8	2.8	5.5	11.1
150°	2.8	2.8	2.8	0.0	2.8
152.5°	2.8	2.8	2.8	0.0	0.0
155°	2.8	2.8	2.8	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)