

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: P237855

Luminaire Tested: **4VRVT2-LD5-11-DR100-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P237855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT2-LD5-11-DR100-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
4FT FIXTURE
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10771.0 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

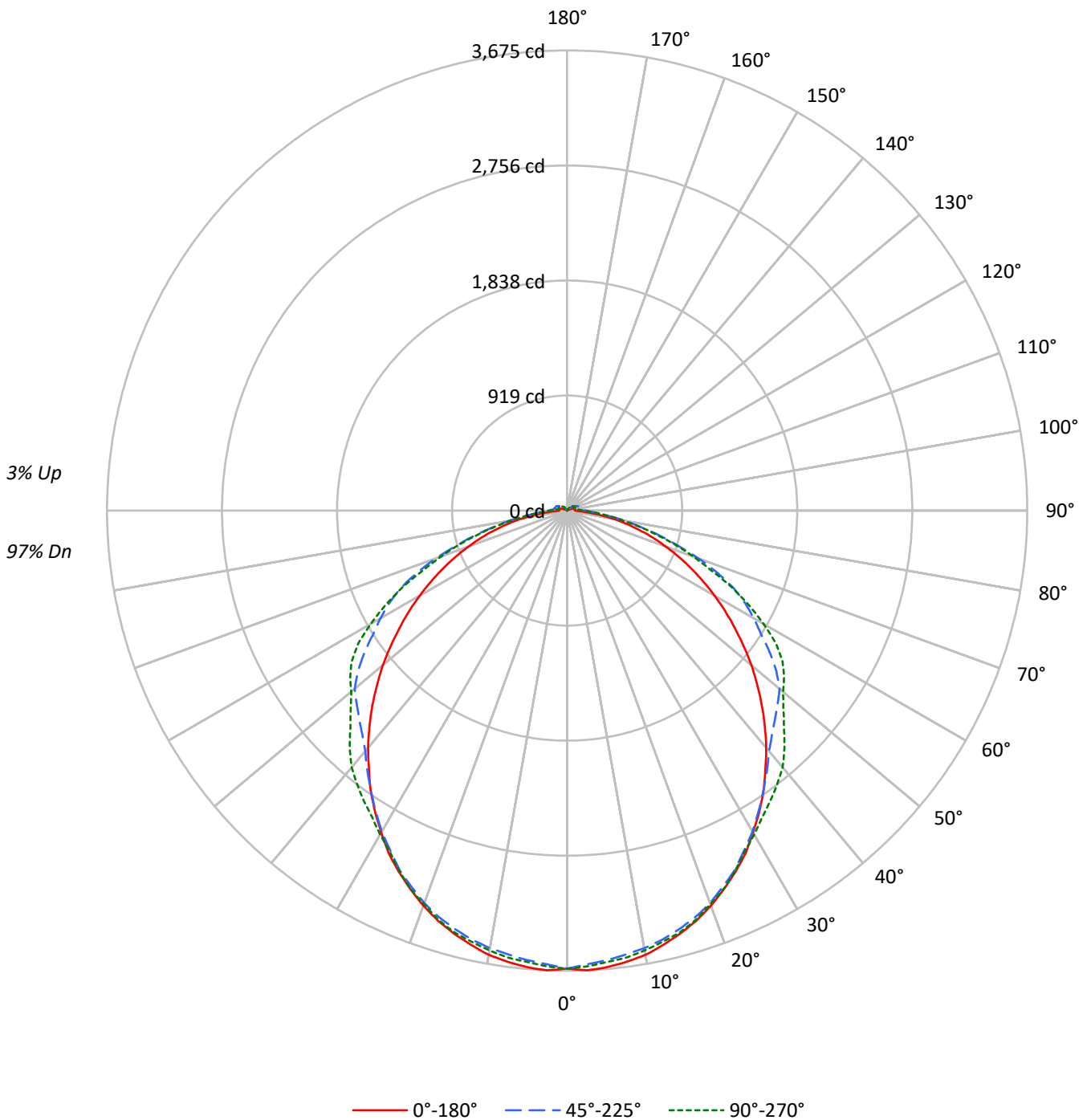
Input Watts (W): 82.44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	44	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18901	18901	18901
5°	18921	18273	18238
10°	18772	17789	17674
15°	18503	17283	17116
20°	18196	16731	16406
25°	17811	16075	15664
30°	17308	15325	14948
35°	16776	14541	14470
40°	16136	13849	14114
45°	15454	13577	13415
50°	14741	13545	12947
55°	13932	12927	12817
60°	13136	12206	11867
65°	12273	11457	10333
70°	11368	9762	8430
75°	10330	7596	6511
80°	8876	5560	4601
85°	6273	3683	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	3.2
10°-20°	980.8	9.1
20°-30°	1460.7	13.6
30°-40°	1728.4	16.0
40°-50°	1805.0	16.8
50°-60°	1698.1	15.8
60°-70°	1361.9	12.6
70°-80°	790.4	7.3
80°-90°	281.5	2.6
90°-100°	109.9	1.0
100°-110°	82.7	0.8
110°-120°	62.8	0.6
120°-130°	38.5	0.4
130°-140°	18.8	0.2
140°-150°	6.2	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2785.9	25.9
0°-40°	4514.3	41.9
0°-60°	8017.4	74.4
0°-90°	10451.3	97.0
90°-120°	255.4	2.4
90°-150°	318.9	3.0
90°-180°	320.0	3.0
0°-180°	10771.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3658	3658	3658	3658	3658	
5°	3661	3641	3605	3623	3619	347
15°	3496	3470	3460	3495	3486	986
25°	3182	3164	3167	3189	3175	1465
35°	2734	2730	2732	2792	2830	1707
45°	2200	2211	2349	2465	2448	1696
55°	1635	1716	1976	2048	2100	1464
65°	1090	1357	1468	1457	1449	1083
75°	595	816	755	741	732	631
85°	154	252	250	244	240	173
90°	63	135	150	141	133	38
95°	64	99	111	98	89	52
105°	52	74	98	80	69	55
115°	27	47	85	76	65	28
125°	10	18	56	61	59	10
135°	5	4	26	42	43	4
145°	3	3	5	18	21	2
155°	1	1	1	1	3	0
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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CATALOG NUMBER: 4VRVT2-LD5-11-DR100-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3658.2	3658.2	3658.2	3658.2	3658.2
2.5°	3675.2	3655.6	3626.9	3653.0	3643.9
5°	3660.9	3641.2	3604.7	3623.0	3619.0
7.5°	3634.7	3608.6	3575.9	3604.7	3602.0
10°	3603.3	3573.3	3548.5	3575.9	3566.8
12.5°	3551.1	3527.5	3509.2	3541.9	3527.5
15°	3496.2	3470.0	3459.6	3494.9	3485.7
17.5°	3433.4	3412.5	3404.7	3424.3	3425.6
20°	3357.6	3341.9	3335.4	3361.6	3345.9
22.5°	3271.4	3249.2	3250.5	3277.9	3270.1
25°	3182.5	3164.2	3166.8	3189.0	3174.7
27.5°	3085.8	3064.9	3059.6	3083.2	3068.8
30°	2968.2	2964.2	2960.3	2979.9	2987.8
32.5°	2854.4	2853.1	2845.3	2872.7	2900.2
35°	2734.2	2730.3	2731.6	2791.7	2829.6
37.5°	2600.9	2604.8	2620.5	2717.2	2755.1
40°	2472.8	2474.1	2508.1	2653.2	2678.0
42.5°	2336.9	2339.5	2421.8	2574.8	2569.5
45°	2199.6	2211.4	2348.6	2465.0	2448.0
47.5°	2057.2	2079.4	2280.7	2342.1	2343.4
50°	1921.3	1950.0	2215.3	2229.7	2250.6
52.5°	1776.2	1832.4	2105.5	2125.2	2184.0
55°	1635.0	1716.1	1976.2	2048.0	2100.3
57.5°	1496.5	1615.4	1836.3	1950.0	1978.8
60°	1359.3	1525.2	1721.3	1814.1	1811.5
62.5°	1224.6	1439.0	1601.1	1644.2	1637.6
65°	1090.0	1356.6	1467.7	1457.3	1449.4
67.5°	965.9	1244.2	1297.8	1254.7	1241.6
70°	835.2	1108.3	1114.9	1071.7	1069.1
72.5°	717.5	961.9	922.7	901.8	903.1
75°	594.7	815.6	755.4	741.1	731.9
77.5°	479.7	654.8	596.0	593.4	588.1
80°	366.0	504.5	466.6	454.8	447.0
82.5°	254.9	364.6	341.1	341.1	335.9
85°	154.2	252.2	249.6	244.4	240.5
87.5°	86.3	173.8	186.9	181.7	171.2
90°	62.7	134.6	150.3	141.2	133.3
92.5°	62.7	113.7	125.5	115.0	105.9
95°	64.0	99.3	111.1	98.0	88.9
97.5°	64.0	91.5	104.6	88.9	79.7
100°	61.4	85.0	100.6	83.6	73.2
102.5°	57.5	79.7	98.0	81.0	70.6
105°	52.3	74.5	98.0	79.7	69.3
107.5°	45.7	69.3	95.4	79.7	68.0
110°	39.2	62.7	94.1	78.4	68.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	34.0	54.9	90.2	77.1	66.7
115°	27.4	47.1	85.0	75.8	65.3
117.5°	22.2	39.2	78.4	73.2	64.0
120°	18.3	31.4	70.6	69.3	62.7
122.5°	13.1	23.5	64.0	66.7	61.4
125°	10.5	18.3	56.2	61.4	58.8
127.5°	9.1	11.8	48.4	57.5	56.2
130°	6.5	7.8	40.5	52.3	52.3
132.5°	5.2	5.2	32.7	47.1	48.4
135°	5.2	3.9	26.1	41.8	43.1
137.5°	3.9	3.9	20.9	35.3	37.9
140°	2.6	2.6	14.4	28.8	32.7
142.5°	2.6	2.6	9.1	23.5	26.1
145°	2.6	2.6	5.2	18.3	20.9
147.5°	2.6	1.3	2.6	13.1	15.7
150°	2.6	1.3	1.3	7.8	10.5
152.5°	1.3	1.3	1.3	3.9	6.5
155°	1.3	1.3	1.3	1.3	2.6
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)