

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: P237844

Luminaire Tested: **4VRVT2-LD5-11-DR-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P237844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT2-LD5-11-DR-UNV-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
4FT FIXTURE
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11402.0 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

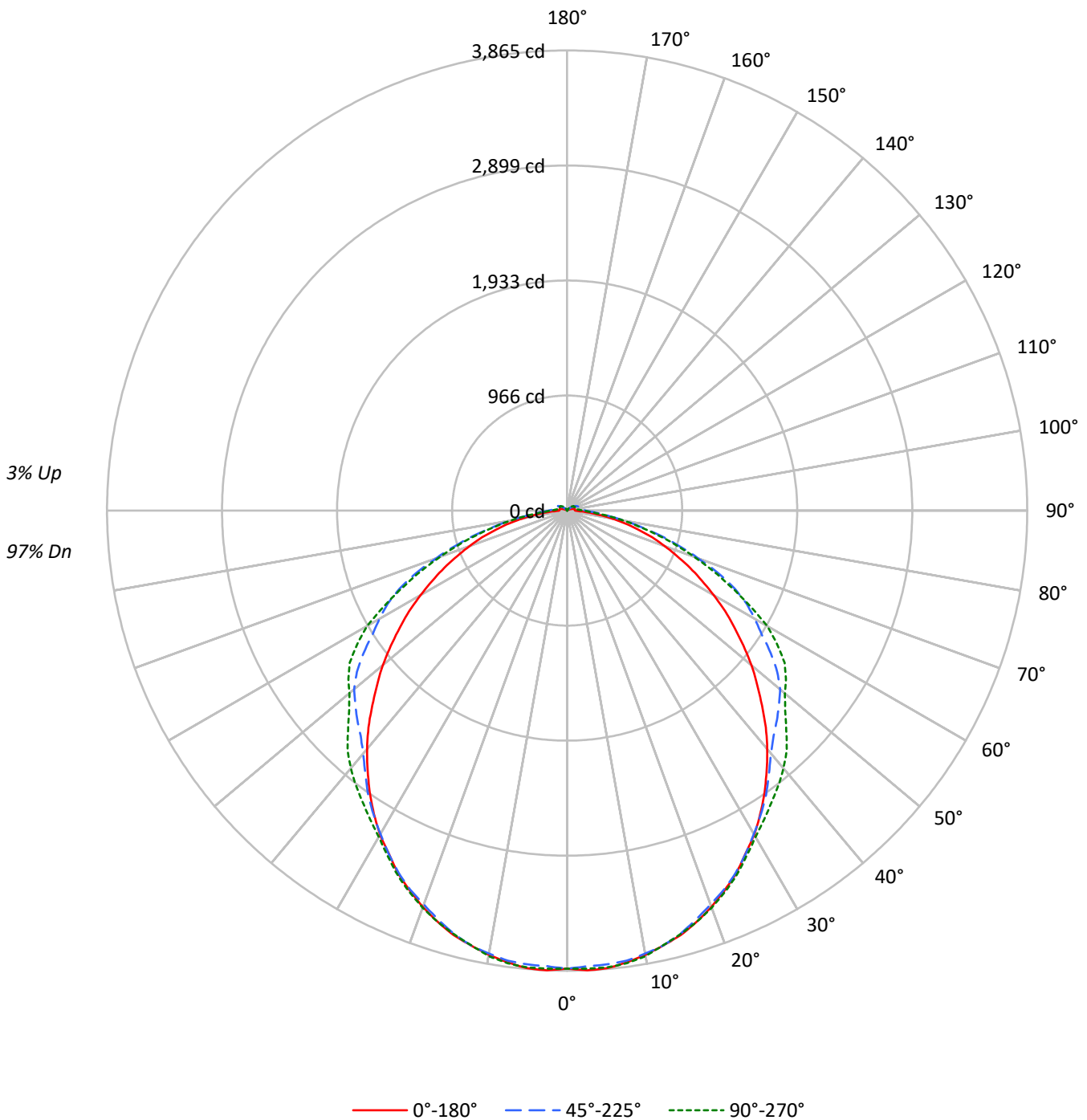
Input Watts (W): 82.44
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	81	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	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	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°	19878	19878	19878
5°	19941	19398	19409
10°	19733	18940	18824
15°	19533	18382	18082
20°	19199	17659	17405
25°	18810	17025	16651
30°	18331	16238	15831
35°	17732	15510	15303
40°	17060	14703	14896
45°	16255	14400	14259
50°	15509	14282	13732
55°	14627	13658	13604
60°	13737	12899	12706
65°	12822	12135	10835
70°	11860	10250	8958
75°	10733	8136	6939
80°	9240	5811	4948
85°	6989	3946	2989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.4	3.2
10°-20°	1040.3	9.1
20°-30°	1550.5	13.6
30°-40°	1834.4	16.1
40°-50°	1909.7	16.7
50°-60°	1796.6	15.8
60°-70°	1439.6	12.6
70°-80°	836.4	7.3
80°-90°	295.0	2.6
90°-100°	113.9	1.0
100°-110°	86.6	0.8
110°-120°	65.9	0.6
120°-130°	40.2	0.4
130°-140°	19.6	0.2
140°-150°	6.4	0.1
150°-160°	1.0	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	2956.2	25.9
0°-40°	4790.6	42.0
0°-60°	8496.9	74.5
0°-90°	11067.9	97.1
90°-120°	266.4	2.3
90°-150°	332.6	2.9
90°-180°	334.0	2.9
0°-180°	11402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3847	3847	3847	3847	3847	
5°	3858	3842	3827	3860	3852	366
15°	3691	3703	3680	3687	3682	1040
25°	3361	3372	3354	3379	3375	1546
35°	2890	2897	2914	2963	2992	1806
45°	2314	2337	2491	2613	2602	1788
55°	1717	1818	2088	2178	2229	1538
65°	1139	1424	1554	1541	1520	1128
75°	618	856	809	791	780	657
85°	172	262	267	258	242	183
90°	65	141	154	146	136	39
95°	66	104	116	101	93	54
105°	54	78	102	84	72	56
115°	28	50	89	79	69	28
125°	11	18	58	65	62	10
135°	4	4	28	43	46	4
145°	3	1	6	18	22	2
155°	1	1	1	1	3	1
165°	1	1	1	1	0	1
175°	3	3	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3847.4	3847.4	3847.4	3847.4	3847.4
2.5°	3865.4	3851.5	3830.7	3858.4	3851.5
5°	3858.4	3841.8	3826.6	3859.8	3851.5
7.5°	3828.0	3825.2	3814.1	3841.8	3834.9
10°	3787.8	3796.1	3778.1	3800.3	3798.9
12.5°	3740.7	3761.5	3740.7	3746.2	3737.9
15°	3690.8	3703.3	3679.7	3686.6	3682.5
17.5°	3621.5	3639.5	3600.8	3635.4	3621.5
20°	3542.6	3560.6	3520.4	3559.2	3549.5
22.5°	3453.9	3470.5	3445.6	3473.3	3466.4
25°	3361.1	3372.2	3354.1	3379.1	3374.9
27.5°	3246.1	3272.4	3248.8	3279.3	3266.9
30°	3143.6	3153.3	3136.6	3174.0	3164.3
32.5°	3020.3	3027.2	3027.2	3060.4	3077.1
35°	2890.0	2896.9	2913.6	2963.4	2992.5
37.5°	2752.9	2768.1	2783.3	2881.7	2913.6
40°	2614.3	2625.4	2662.8	2805.5	2826.3
42.5°	2470.2	2481.3	2567.2	2723.8	2730.7
45°	2313.7	2337.2	2491.0	2612.9	2601.9
47.5°	2165.4	2194.5	2413.4	2471.6	2482.7
50°	2021.4	2054.6	2335.8	2358.0	2387.1
52.5°	1866.2	1929.9	2225.0	2255.5	2316.5
55°	1716.6	1817.7	2087.9	2177.9	2229.2
57.5°	1573.9	1705.5	1938.2	2078.2	2092.0
60°	1421.5	1609.9	1819.1	1938.2	1939.6
62.5°	1276.0	1518.4	1701.3	1747.0	1727.6
65°	1138.8	1424.2	1554.5	1540.6	1519.8
67.5°	998.9	1303.7	1373.0	1342.5	1328.6
70°	871.4	1173.5	1170.7	1144.4	1136.1
72.5°	749.5	1011.4	983.7	960.1	953.2
75°	617.9	856.2	809.1	791.1	780.0
77.5°	498.8	695.5	631.8	624.8	616.5
80°	381.0	530.6	487.7	489.1	480.7
82.5°	263.2	381.0	357.4	354.7	345.0
85°	171.8	261.8	267.4	257.7	242.5
87.5°	92.8	182.9	195.3	188.4	177.3
90°	65.1	141.3	153.8	145.5	135.8
92.5°	65.1	119.1	130.2	117.8	109.4
95°	66.5	103.9	116.4	101.1	92.8
97.5°	66.5	94.2	108.1	91.4	81.7
100°	63.7	88.7	105.3	87.3	77.6
102.5°	59.6	83.1	103.9	84.5	74.8
105°	54.0	77.6	102.5	84.5	72.0
107.5°	47.1	72.0	101.1	83.1	72.0
110°	40.2	65.1	98.4	83.1	70.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	34.6	58.2	94.2	81.7	70.7
115°	27.7	49.9	88.7	79.0	69.3
117.5°	22.2	41.6	81.7	76.2	67.9
120°	18.0	33.3	74.8	73.4	66.5
122.5°	13.9	24.9	66.5	69.3	63.7
125°	11.1	18.0	58.2	65.1	62.3
127.5°	8.3	12.5	49.9	61.0	58.2
130°	6.9	6.9	41.6	55.4	54.0
132.5°	5.5	5.5	34.6	49.9	51.3
135°	4.2	4.2	27.7	42.9	45.7
137.5°	4.2	2.8	20.8	37.4	40.2
140°	2.8	2.8	15.2	30.5	33.3
142.5°	2.8	2.8	9.7	24.9	27.7
145°	2.8	1.4	5.5	18.0	22.2
147.5°	2.8	1.4	2.8	12.5	16.6
150°	1.4	1.4	1.4	8.3	11.1
152.5°	1.4	1.4	1.4	4.2	5.5
155°	1.4	1.4	1.4	1.4	2.8
157.5°	1.4	1.4	1.4	1.4	0.0
160°	1.4	1.4	1.4	1.4	0.0
162.5°	1.4	1.4	1.4	1.4	0.0
165°	1.4	1.4	1.4	1.4	0.0
167.5°	2.8	1.4	1.4	1.4	0.0
170°	2.8	1.4	1.4	1.4	0.0
172.5°	2.8	2.8	1.4	1.4	0.0
175°	2.8	2.8	1.4	1.4	1.4
177.5°	2.8	2.8	1.4	1.4	1.4
180°	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)