

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P237793

Luminaire Tested: **4VT2-LD5-4-DR100-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VT2-LD5-4-DR100-UNV-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
4FT FIXTURE
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4393.0 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

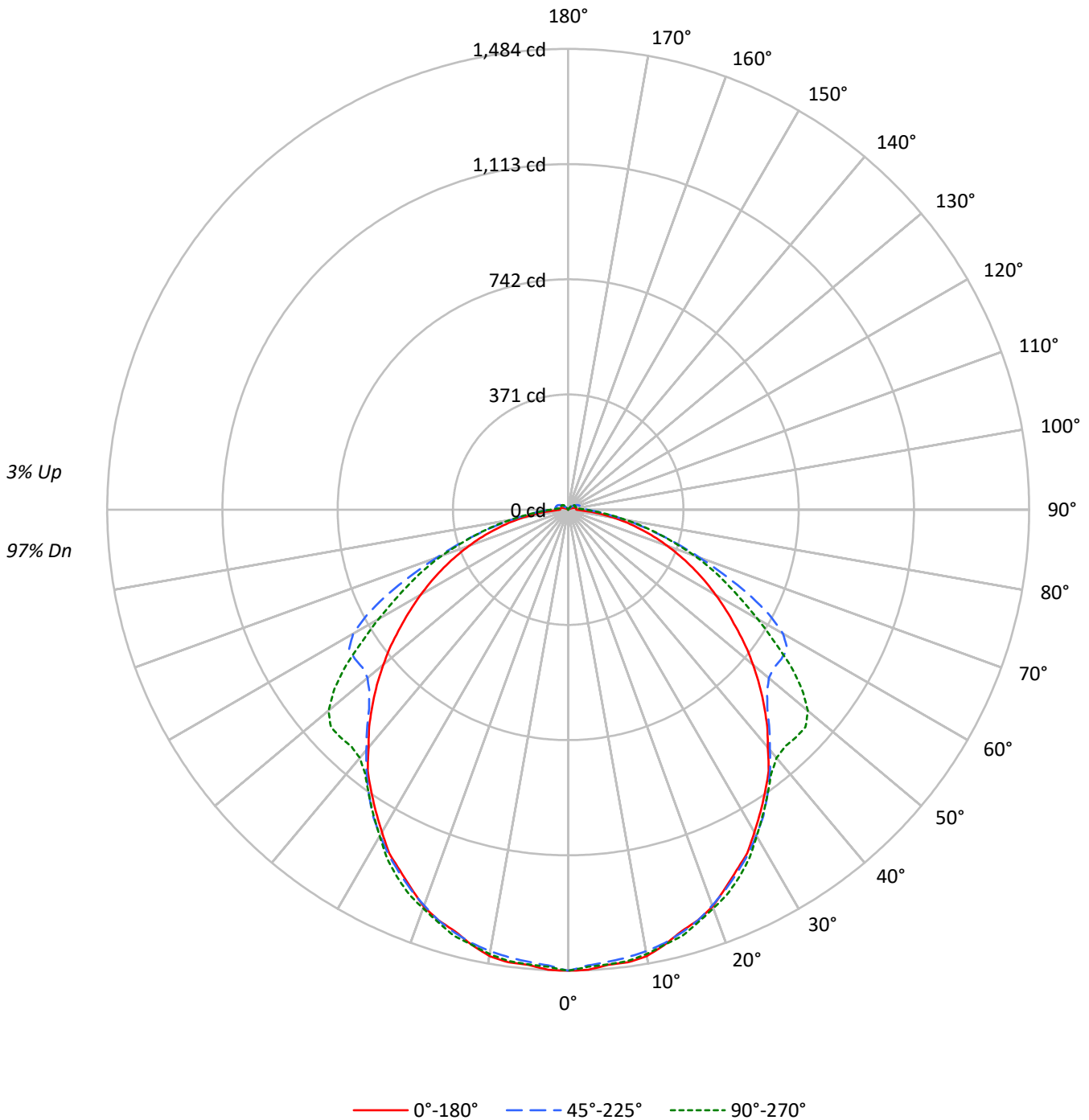
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	104	100	96	92	95	92	89	91	88	86	87	84	82	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	69	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	55	50	59	54	49	47
5	74	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
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	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7670	7670	7670
5°	7603	7410	7406
10°	7605	7239	7201
15°	7440	7044	6976
20°	7369	6804	6699
25°	7174	6539	6433
30°	6992	6270	6070
35°	6783	5957	5722
40°	6526	5580	5498
45°	6260	5240	5682
50°	5961	5157	5794
55°	5613	5481	5325
60°	5298	5665	4617
65°	4976	4970	4004
70°	4617	3925	3406
75°	4158	3013	2678
80°	3623	2177	1918
85°	2681	1536	1257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	3.2
10°-20°	398.8	9.1
20°-30°	596.0	13.6
30°-40°	698.1	15.9
40°-50°	729.3	16.6
50°-60°	708.5	16.1
60°-70°	551.3	12.5
70°-80°	324.4	7.4
80°-90°	117.2	2.7
90°-100°	44.5	1.0
100°-110°	33.2	0.8
110°-120°	25.7	0.6
120°-130°	16.4	0.4
130°-140°	8.3	0.2
140°-150°	1.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1134.5	25.8
0°-40°	1832.6	41.7
0°-60°	3270.4	74.4
0°-90°	4263.2	97.0
90°-120°	103.4	2.4
90°-150°	129.7	3.0
90°-180°	130.0	3.0
0°-180°	4393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1471	1467	1462	1472	1470	140
15°	1406	1410	1410	1423	1421	398
25°	1282	1292	1288	1305	1304	591
35°	1106	1113	1119	1120	1119	691
45°	891	900	906	991	1037	687
55°	659	679	838	903	872	591
65°	442	523	637	562	562	438
75°	239	356	300	298	301	256
85°	66	106	104	103	102	72
90°	26	55	62	58	57	16
95°	27	40	45	39	35	22
105°	22	31	39	30	26	23
115°	11	21	35	30	26	12
125°	5	8	24	26	24	4
135°	2	1	12	18	19	2
145°	0	0	0	0	0	0
155°	0	0	0	0	0	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.5	1484.5	1484.5	1484.5	1484.5
2.5°	1483.0	1476.7	1468.9	1477.4	1473.1
5°	1471.0	1466.8	1461.8	1471.7	1469.6
7.5°	1470.3	1461.1	1454.0	1466.8	1466.0
10°	1459.7	1447.6	1444.1	1457.5	1453.3
12.5°	1434.9	1429.2	1429.9	1444.8	1434.9
15°	1405.8	1410.1	1410.1	1422.8	1420.7
17.5°	1386.7	1386.7	1387.4	1395.9	1392.4
20°	1359.8	1358.4	1356.3	1370.4	1366.2
22.5°	1320.1	1325.8	1323.7	1342.8	1340.0
25°	1281.9	1292.5	1288.3	1304.6	1303.9
27.5°	1247.2	1252.9	1252.2	1265.6	1264.2
30°	1199.0	1208.2	1211.1	1219.6	1213.2
32.5°	1152.3	1161.5	1169.3	1169.3	1165.8
35°	1105.6	1113.3	1119.0	1119.7	1119.0
37.5°	1060.2	1060.9	1066.6	1066.6	1073.0
40°	1000.0	1008.5	1010.6	1026.9	1043.2
42.5°	948.3	953.3	958.2	1000.0	1033.3
45°	891.0	899.5	906.5	990.8	1036.9
47.5°	835.0	842.1	867.6	994.4	1036.1
50°	776.9	786.8	843.5	997.9	1007.1
52.5°	719.6	733.0	835.0	966.7	948.3
55°	658.7	679.2	837.8	903.0	872.5
57.5°	602.7	632.5	836.4	819.4	782.6
60°	548.2	590.7	798.9	724.5	704.7
62.5°	494.3	555.3	727.4	639.5	628.9
65°	441.9	523.4	636.7	561.6	561.6
67.5°	389.5	497.9	537.5	492.2	499.3
70°	339.2	467.4	448.3	422.8	432.0
72.5°	289.0	420.7	370.4	361.2	363.3
75°	239.4	355.5	299.6	297.5	301.0
77.5°	196.2	283.3	235.1	242.2	243.6
80°	149.4	213.2	182.7	189.1	186.3
82.5°	104.8	153.0	138.1	142.4	140.9
85°	65.9	106.2	104.1	103.4	102.0
87.5°	37.5	72.2	77.2	77.2	74.4
90°	26.2	55.2	61.6	58.1	56.7
92.5°	26.2	46.7	51.0	46.0	43.2
95°	26.9	40.4	44.6	39.0	35.4
97.5°	26.9	37.5	41.8	34.7	31.2
100°	26.2	34.7	40.4	31.9	28.3
102.5°	24.1	33.3	39.7	31.2	26.9
105°	22.0	31.2	39.0	30.5	26.2
107.5°	19.8	29.0	39.0	30.5	25.5
110°	17.0	26.9	38.2	30.5	25.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.2	24.1	36.8	29.7	25.5
115°	11.3	21.2	34.7	29.7	25.5
117.5°	9.2	17.7	32.6	29.0	25.5
120°	7.8	14.2	30.5	28.3	24.8
122.5°	5.7	11.3	26.9	26.9	24.8
125°	5.0	8.5	24.1	26.2	24.1
127.5°	3.5	5.7	21.2	24.1	23.4
130°	2.8	3.5	17.7	22.7	22.7
132.5°	2.1	2.1	14.9	20.5	21.2
135°	2.1	1.4	12.0	18.4	19.1
137.5°	1.4	1.4	9.2	15.6	17.7
140°	1.4	1.4	7.1	13.5	14.9
142.5°	1.4	1.4	5.0	10.6	12.7
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	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)