

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: P237739

Luminaire Tested: **2VT2-LD5-4-DR-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VT2-LD5-4-DR-UNV-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
2FT FIXTURE
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4320.1 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

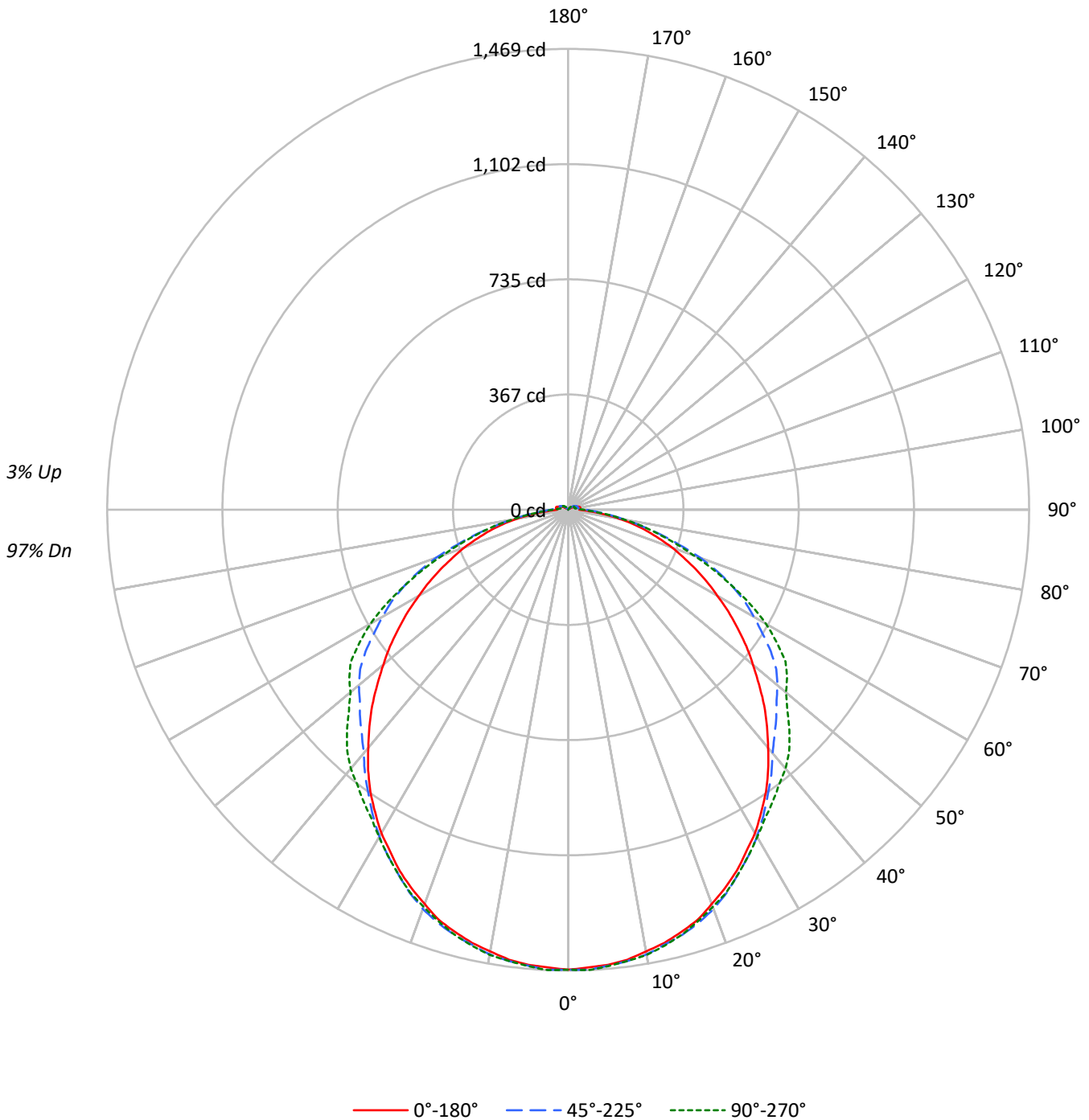
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	104	104	104	100	100	100	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	78	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	56	49	44	53	48	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	44	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	31	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15151	15151	15151
5°	15002	14759	14721
10°	14794	14365	14281
15°	14595	13922	13768
20°	14293	13461	13214
25°	13965	12861	12648
30°	13581	12286	12056
35°	13123	11607	11622
40°	12526	10977	11359
45°	11952	10605	10922
50°	11282	10381	10420
55°	10666	10020	10321
60°	9971	9378	9541
65°	9335	8675	8230
70°	8724	7495	6701
75°	7951	5819	5272
80°	6750	4069	3712
85°	4849	2710	2273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	3.2
10°-20°	395.0	9.1
20°-30°	589.4	13.6
30°-40°	697.7	16.1
40°-50°	724.5	16.8
50°-60°	678.3	15.7
60°-70°	543.0	12.6
70°-80°	320.6	7.4
80°-90°	115.4	2.7
90°-100°	41.7	1.0
100°-110°	30.7	0.7
110°-120°	23.3	0.5
120°-130°	14.0	0.3
130°-140°	6.7	0.2
140°-150°	1.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1123.1	26.0
0°-40°	1820.7	42.1
0°-60°	3223.5	74.6
0°-90°	4202.5	97.3
90°-120°	95.6	2.2
90°-150°	117.5	2.7
90°-180°	118.0	2.7
0°-180°	4320.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1456	1458	1459	1463	1461	138
15°	1394	1394	1403	1409	1402	393
25°	1270	1279	1282	1284	1282	585
35°	1099	1104	1108	1125	1136	686
45°	883	889	938	994	996	680
55°	660	679	788	822	846	590
65°	447	528	577	587	577	444
75°	259	330	305	299	296	272
85°	78	108	99	96	92	83
90°	35	57	54	50	49	21
95°	36	40	38	32	31	31
105°	36	32	31	25	21	37
115°	21	22	28	24	21	21
125°	10	10	18	20	20	9
135°	4	3	8	13	14	3
145°	0	0	0	0	0	1
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°	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1460.6	1464.8	1467.6	1470.3	1469.0
5°	1456.4	1457.8	1459.2	1463.4	1460.6
7.5°	1446.6	1446.6	1450.8	1455.0	1450.8
10°	1429.8	1431.2	1439.6	1446.6	1441.0
12.5°	1414.4	1415.8	1420.0	1432.6	1422.8
15°	1393.5	1393.5	1403.3	1408.9	1401.9
17.5°	1371.1	1371.1	1380.9	1382.3	1375.3
20°	1337.6	1340.4	1354.3	1350.1	1347.4
22.5°	1305.4	1309.6	1320.8	1322.2	1319.4
25°	1270.5	1278.9	1281.7	1284.5	1281.7
27.5°	1228.6	1239.7	1243.9	1242.5	1243.9
30°	1190.8	1197.8	1203.4	1204.8	1204.8
32.5°	1144.7	1151.7	1157.3	1162.9	1167.1
35°	1098.6	1104.2	1108.4	1125.1	1136.3
37.5°	1046.9	1055.2	1063.6	1091.6	1104.2
40°	990.9	999.3	1013.3	1058.0	1077.6
42.5°	937.8	944.8	972.8	1031.5	1042.7
45°	883.3	888.9	937.8	993.7	996.5
47.5°	824.6	833.0	900.1	943.4	947.6
50°	768.7	781.3	870.7	895.9	905.7
52.5°	715.6	729.6	835.8	854.0	879.1
55°	659.7	679.3	788.3	821.8	845.6
57.5°	605.2	638.7	733.8	779.9	788.3
60°	549.3	599.6	683.5	726.8	728.2
62.5°	499.0	563.3	634.5	658.3	655.5
65°	447.3	528.3	577.2	587.0	577.2
67.5°	396.9	490.6	514.3	506.0	503.2
70°	352.2	441.7	447.3	429.1	424.9
72.5°	301.9	385.8	370.4	363.4	359.2
75°	258.6	329.8	304.7	299.1	296.3
77.5°	212.4	269.8	237.6	240.4	240.4
80°	164.9	209.7	181.7	184.5	180.3
82.5°	120.2	153.7	138.4	137.0	132.8
85°	78.3	107.6	99.2	96.4	92.2
87.5°	47.5	75.5	72.7	69.9	67.1
90°	34.9	57.3	54.5	50.3	48.9
92.5°	34.9	47.5	44.7	40.5	37.7
95°	36.3	40.5	37.7	32.1	30.7
97.5°	39.1	37.7	33.5	29.4	26.6
100°	39.1	34.9	32.1	26.6	23.8
102.5°	37.7	33.5	30.7	25.2	22.4
105°	36.3	32.1	30.7	25.2	21.0
107.5°	32.1	30.7	30.7	23.8	21.0
110°	29.4	28.0	29.4	23.8	21.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.2	25.2	29.4	23.8	21.0
115°	21.0	22.4	28.0	23.8	21.0
117.5°	18.2	18.2	25.2	22.4	21.0
120°	14.0	15.4	23.8	22.4	19.6
122.5°	11.2	12.6	21.0	21.0	19.6
125°	9.8	9.8	18.2	19.6	19.6
127.5°	7.0	7.0	15.4	18.2	18.2
130°	5.6	5.6	14.0	16.8	16.8
132.5°	5.6	4.2	11.2	15.4	15.4
135°	4.2	2.8	8.4	12.6	14.0
137.5°	2.8	2.8	7.0	11.2	12.6
140°	2.8	2.8	4.2	8.4	9.8
142.5°	2.8	1.4	2.8	7.0	8.4
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)