

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: P237784

Luminaire Tested: **4VT2-LD5-6-DR-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VT2-LD5-6-DR-UNV-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% 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: 6569.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

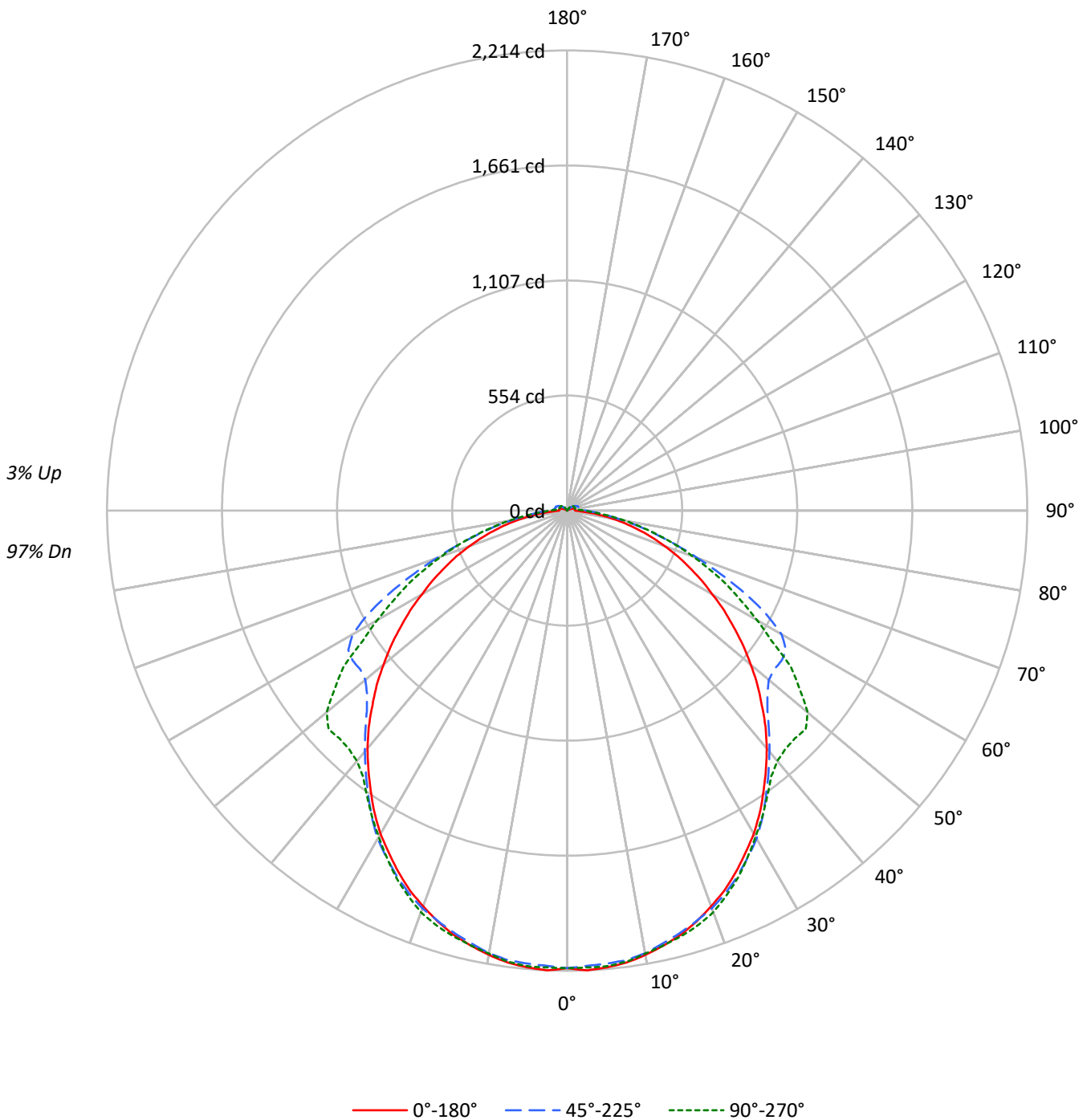
Input Watts (W): 50.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	55
4	81	69	60	53	79	67	59	53	64	57	51	62	56	50	59	54	49	47
5	75	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°	11375	11375	11375
5°	11401	11091	11090
10°	11310	10841	10726
15°	11180	10506	10410
20°	10978	10215	10084
25°	10743	9847	9608
30°	10471	9439	9069
35°	10107	8888	8581
40°	9753	8358	8291
45°	9309	7880	8493
50°	8848	7745	8689
55°	8337	8238	8028
60°	7805	8449	6917
65°	7316	7373	6061
70°	6796	5847	5065
75°	6151	4467	4026
80°	5297	3246	2935
85°	4052	2315	1868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	3.2
10°-20°	597.0	9.1
20°-30°	892.3	13.6
30°-40°	1045.4	15.9
40°-50°	1094.0	16.7
50°-60°	1058.1	16.1
60°-70°	822.5	12.5
70°-80°	485.2	7.4
80°-90°	174.9	2.7
90°-100°	65.2	1.0
100°-110°	48.9	0.7
110°-120°	37.8	0.6
120°-130°	24.1	0.4
130°-140°	12.4	0.2
140°-150°	2.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1698.2	25.9
0°-40°	2743.6	41.8
0°-60°	4895.6	74.5
0°-90°	6378.2	97.1
90°-120°	151.9	2.3
90°-150°	190.8	2.9
90°-180°	191.0	2.9
0°-180°	6569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2202	2202	2202	2202	2202	
5°	2206	2195	2188	2207	2201	209
15°	2113	2119	2103	2128	2120	595
25°	1920	1928	1940	1955	1947	884
35°	1647	1668	1670	1679	1678	1031
45°	1325	1348	1363	1494	1550	1023
55°	978	1012	1259	1343	1316	877
65°	650	781	944	844	850	646
75°	354	529	444	450	453	376
85°	100	157	157	156	152	107
90°	38	82	90	86	81	23
95°	39	59	66	57	51	31
105°	32	47	57	46	39	33
115°	16	31	51	44	38	17
125°	6	12	35	38	36	6
135°	3	2	18	28	29	2
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°	2201.7	2201.7	2201.7	2201.7	2201.7
2.5°	2214.4	2203.8	2192.2	2205.9	2200.6
5°	2205.9	2195.3	2187.9	2207.0	2200.6
7.5°	2193.2	2185.8	2181.6	2197.5	2189.0
10°	2170.9	2167.8	2162.5	2178.4	2164.6
12.5°	2143.4	2146.6	2132.8	2150.8	2142.3
15°	2112.6	2119.0	2103.1	2128.5	2120.1
17.5°	2072.4	2079.8	2070.2	2102.0	2092.5
20°	2025.7	2030.0	2036.3	2058.6	2056.5
22.5°	1978.0	1981.2	1991.8	2008.8	2003.5
25°	1919.7	1928.2	1939.9	1954.7	1947.3
27.5°	1857.2	1869.9	1881.6	1893.2	1880.5
30°	1795.7	1802.1	1823.3	1822.2	1812.7
32.5°	1724.7	1740.6	1749.1	1745.9	1746.9
35°	1647.3	1668.5	1669.6	1679.1	1678.0
37.5°	1571.0	1594.3	1591.1	1609.1	1612.3
40°	1494.6	1510.5	1513.7	1545.5	1573.1
42.5°	1413.0	1428.9	1437.4	1504.2	1555.1
45°	1325.0	1348.4	1363.2	1493.6	1549.8
47.5°	1242.4	1263.6	1306.0	1493.6	1557.2
50°	1153.3	1178.8	1266.7	1490.4	1510.5
52.5°	1067.5	1092.9	1255.1	1444.8	1409.8
55°	978.4	1012.3	1259.3	1343.1	1315.5
57.5°	895.7	943.4	1248.7	1221.2	1166.0
60°	807.7	877.7	1191.5	1085.5	1055.8
62.5°	730.4	824.7	1081.2	956.2	945.6
65°	649.8	781.2	944.5	843.8	850.1
67.5°	576.7	742.0	801.4	741.0	745.2
70°	499.3	695.4	667.8	643.4	642.4
72.5°	427.2	628.6	551.2	543.8	547.0
75°	354.1	529.0	444.2	449.5	452.6
77.5°	287.3	427.2	356.2	362.5	362.5
80°	218.4	319.1	272.4	284.1	285.1
82.5°	156.9	227.9	207.8	214.1	208.8
85°	99.6	156.9	156.9	155.8	151.6
87.5°	56.2	108.1	114.5	113.4	108.1
90°	38.2	81.6	90.1	85.9	80.6
92.5°	38.2	68.9	75.3	67.8	62.5
95°	39.2	59.4	65.7	57.2	50.9
97.5°	38.2	55.1	61.5	50.9	44.5
100°	37.1	50.9	59.4	47.7	41.3
102.5°	35.0	48.8	58.3	45.6	39.2
105°	31.8	46.6	57.2	45.6	39.2
107.5°	27.6	43.5	57.2	45.6	39.2
110°	24.4	39.2	56.2	44.5	38.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.1	35.0	54.1	44.5	38.2
115°	15.9	30.7	50.9	43.5	38.2
117.5°	13.8	25.4	47.7	43.5	38.2
120°	10.6	21.2	44.5	41.3	37.1
122.5°	8.5	15.9	40.3	40.3	36.0
125°	6.4	11.7	35.0	38.2	36.0
127.5°	5.3	8.5	30.7	36.0	35.0
130°	4.2	5.3	26.5	33.9	32.9
132.5°	3.2	3.2	22.3	30.7	30.7
135°	3.2	2.1	18.0	27.6	28.6
137.5°	2.1	2.1	13.8	23.3	25.4
140°	2.1	2.1	10.6	20.1	22.3
142.5°	2.1	2.1	7.4	15.9	18.0
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)