

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: P237745

Luminaire Tested: **2VT2-LD5-3-DR100-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VT2-LD5-3-DR100-UNV-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% 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: 3260.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

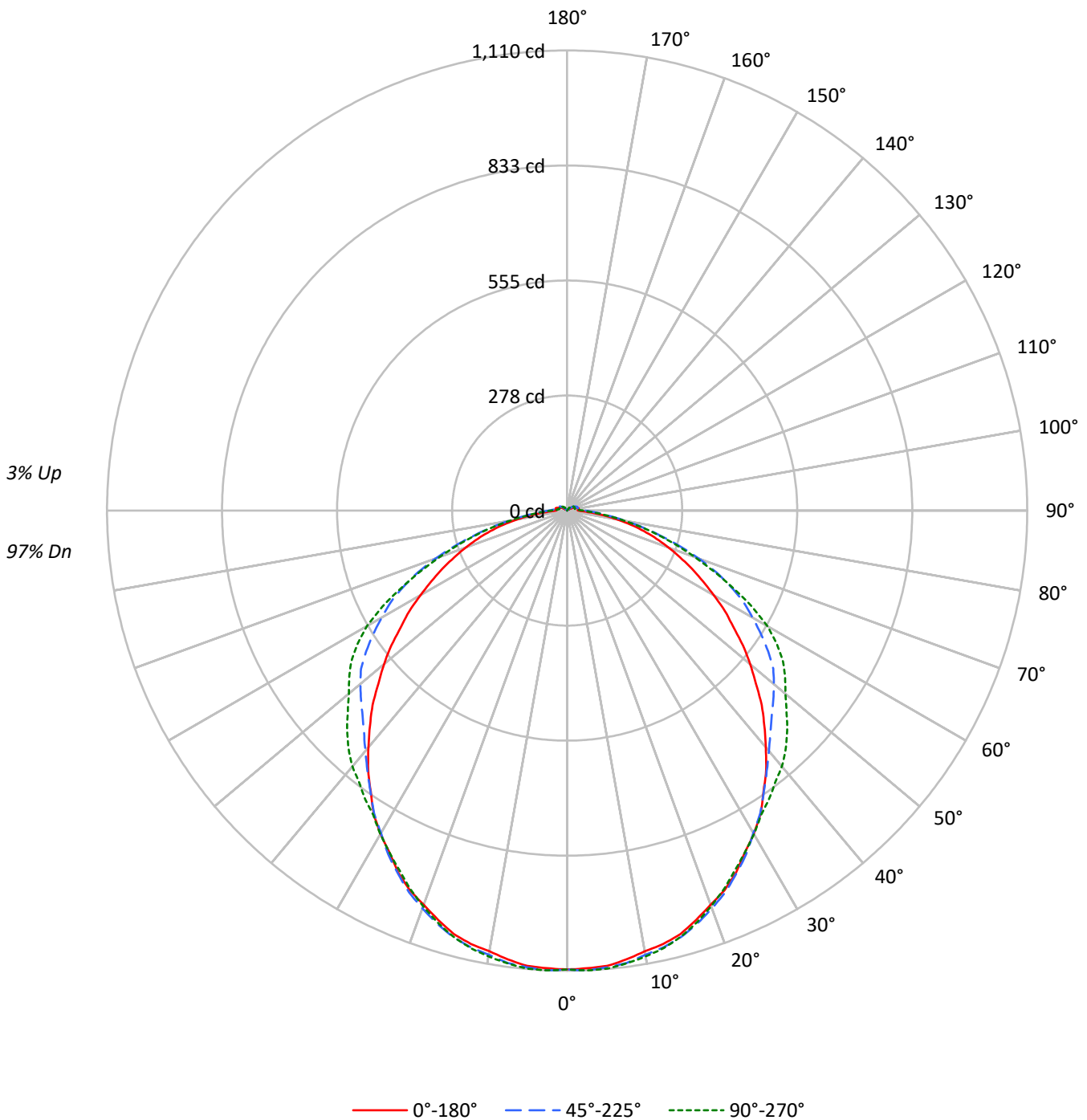
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P237745

CATALOG NUMBER: 2VT2-LD5-3-DR100-UNV-L850-CD1-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P237745

CATALOG NUMBER: 2VT2-LD5-3-DR100-UNV-L850-CD1-WL-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	85	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	70	64	59	67	62	58	55
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°	11439	11439	11439
5°	11359	11185	11179
10°	11168	10856	10823
15°	11072	10562	10444
20°	10809	10149	9962
25°	10594	9693	9448
30°	10267	9169	9019
35°	9867	8661	8686
40°	9422	8201	8495
45°	8982	7890	8228
50°	8465	7762	7905
55°	7903	7521	7765
60°	7409	7085	7307
65°	6927	6567	6305
70°	6435	5650	5151
75°	5900	4434	4037
80°	4990	3182	2860
85°	3679	2144	1804



TEST NUMBER: P237745

CATALOG NUMBER: 2VT2-LD5-3-DR100-UNV-L850-CD1-WL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.2
10°-20°	299.0	9.2
20°-30°	443.8	13.6
30°-40°	522.7	16.0
40°-50°	542.6	16.6
50°-60°	509.2	15.6
60°-70°	409.4	12.6
70°-80°	243.0	7.5
80°-90°	89.1	2.7
90°-100°	33.4	1.0
100°-110°	25.4	0.8
110°-120°	19.4	0.6
120°-130°	11.7	0.4
130°-140°	5.5	0.2
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	847.7	26.0
0°-40°	1370.4	42.0
0°-60°	2422.1	74.3
0°-90°	3163.5	97.0
90°-120°	78.2	2.4
90°-150°	96.5	3.0
90°-180°	96.0	2.9
0°-180°	3260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1103	1103	1106	1109	1109	104
15°	1057	1058	1065	1065	1064	297
25°	964	964	966	963	958	443
35°	826	832	827	839	849	517
45°	664	663	698	744	751	511
55°	489	506	592	619	636	440
65°	332	390	437	450	442	329
75°	192	244	232	231	227	202
85°	59	82	78	76	73	61
90°	26	44	44	41	38	16
95°	28	32	31	28	24	23
105°	25	25	26	22	19	27
115°	15	17	23	21	19	15
125°	6	7	15	17	17	6
135°	3	2	7	11	12	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



TEST NUMBER: P237745

CATALOG NUMBER: 2VT2-LD5-3-DR100-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.0	1107.0	1107.0	1107.0	1107.0
2.5°	1104.9	1107.0	1110.2	1110.2	1110.2
5°	1102.7	1102.7	1105.9	1109.1	1109.1
7.5°	1092.1	1094.3	1100.6	1100.6	1101.7
10°	1079.4	1085.8	1087.9	1092.1	1092.1
12.5°	1070.9	1073.1	1078.4	1080.5	1080.5
15°	1057.2	1058.2	1064.6	1064.6	1063.5
17.5°	1034.9	1038.1	1044.4	1044.4	1041.2
20°	1011.6	1019.0	1021.1	1017.9	1015.8
22.5°	991.4	993.5	996.7	991.4	988.2
25°	963.8	963.8	966.0	962.8	957.5
27.5°	928.9	936.3	935.2	933.1	928.9
30°	900.2	904.5	898.1	899.2	901.3
32.5°	868.4	870.5	866.3	868.4	870.5
35°	826.0	832.4	827.1	838.7	849.3
37.5°	788.9	793.1	791.0	814.3	824.9
40°	745.4	749.7	757.1	791.0	805.9
42.5°	704.1	705.1	725.3	768.7	780.4
45°	663.8	662.7	697.7	744.4	750.7
47.5°	617.1	620.3	674.4	714.7	717.8
50°	576.8	582.1	651.0	677.6	687.1
52.5°	534.4	542.9	626.7	646.8	662.7
55°	488.8	505.8	591.7	619.2	636.2
57.5°	451.7	472.9	554.6	587.4	600.1
60°	408.2	444.3	516.4	548.2	557.7
62.5°	369.0	416.7	480.3	501.5	502.6
65°	331.9	390.2	436.9	449.6	442.2
67.5°	294.8	360.5	389.1	390.2	382.8
70°	259.8	325.5	337.2	332.9	326.6
72.5°	225.9	285.2	284.2	278.9	276.7
75°	191.9	243.9	232.2	231.2	226.9
77.5°	156.9	200.4	185.6	184.5	181.3
80°	121.9	153.7	142.1	143.1	138.9
82.5°	88.0	116.6	106.0	107.1	102.9
85°	59.4	81.6	78.5	76.3	73.2
87.5°	35.0	57.3	57.3	56.2	52.0
90°	26.5	44.5	44.5	41.4	38.2
92.5°	25.4	36.1	36.1	32.9	29.7
95°	27.6	31.8	30.7	27.6	24.4
97.5°	28.6	29.7	28.6	24.4	22.3
100°	28.6	27.6	27.6	22.3	20.1
102.5°	27.6	26.5	26.5	22.3	19.1
105°	25.4	25.4	26.5	22.3	19.1
107.5°	23.3	24.4	25.4	22.3	19.1
110°	20.1	22.3	25.4	22.3	19.1



TEST NUMBER: P237745

CATALOG NUMBER: 2VT2-LD5-3-DR100-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.0	20.1	24.4	21.2	19.1
115°	14.8	17.0	23.3	21.2	19.1
117.5°	12.7	14.8	21.2	20.1	19.1
120°	10.6	11.7	20.1	20.1	18.0
122.5°	8.5	9.5	18.0	19.1	18.0
125°	6.4	7.4	14.8	17.0	17.0
127.5°	5.3	5.3	12.7	15.9	15.9
130°	4.2	4.2	10.6	14.8	14.8
132.5°	3.2	3.2	8.5	12.7	13.8
135°	3.2	2.1	7.4	10.6	11.7
137.5°	2.1	2.1	5.3	9.5	10.6
140°	2.1	2.1	4.2	7.4	8.5
142.5°	2.1	1.1	2.1	6.4	7.4
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)