

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: P237814

Luminaire Tested: **8VT2-LD5-12-FR50-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VT2-LD5-12-FR50-UNV-L850-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
FROSTED LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13008.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

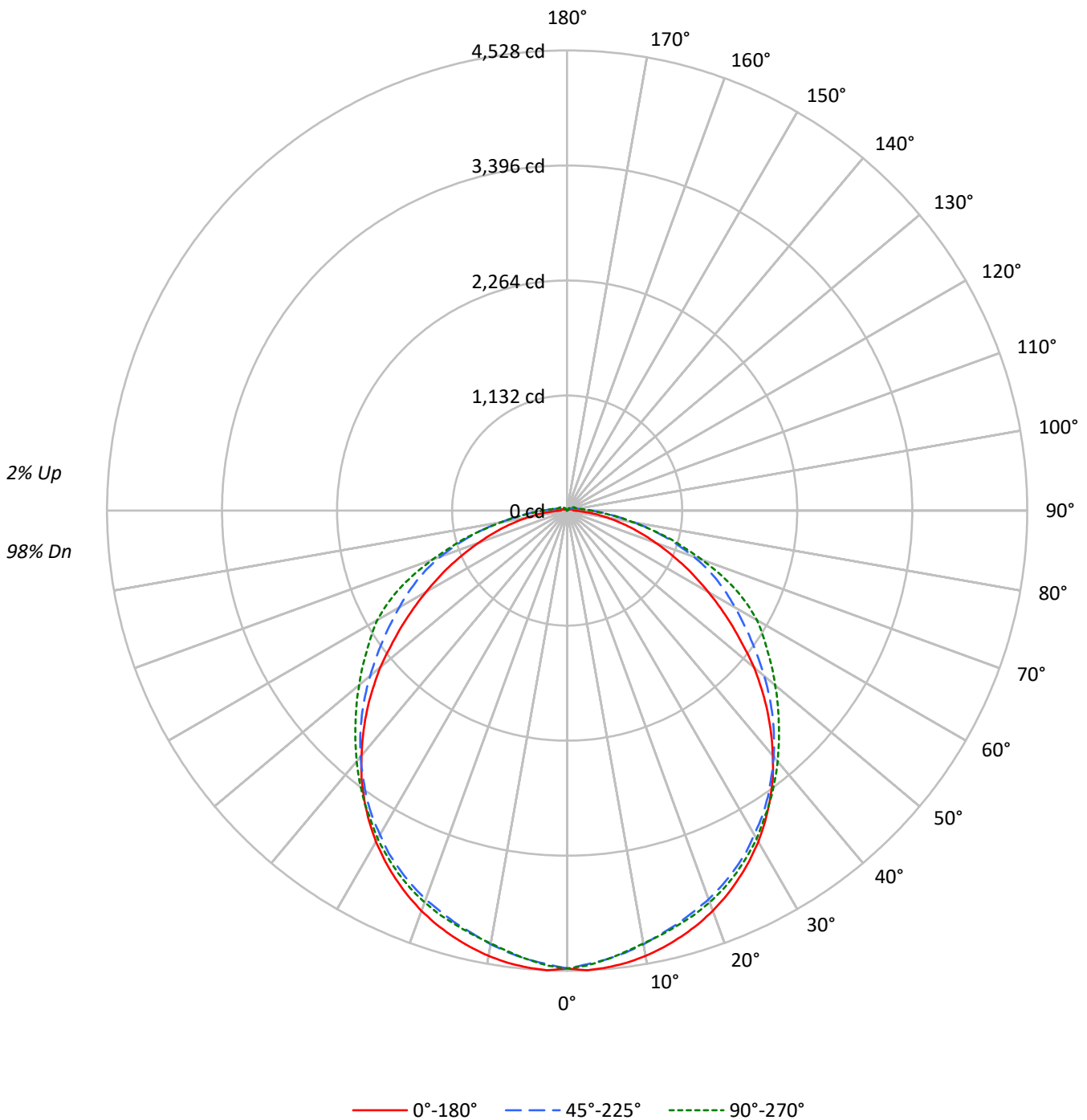
Input Watts (W): 101.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P237814

CATALOG NUMBER: 8VT2-LD5-12-FR50-UNV-L850-CD2-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P237814

CATALOG NUMBER: 8VT2-LD5-12-FR50-UNV-L850-CD2-WL-U

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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98					98			
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80					80			
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	76	72	69	67					67			
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56					56			
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48					48			
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41					41			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36					36			
7	64	50	42	35	62	50	41	35	48	40	35	46	39	34	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28					28			
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11637	11637	11637
5°	11683	11254	11174
10°	11631	10887	10714
15°	11543	10548	10367
20°	11438	10257	10057
25°	11285	9952	9711
30°	11096	9599	9328
35°	10819	9240	8911
40°	10441	8817	8491
45°	9985	8353	8068
50°	9420	7838	7683
55°	8707	7325	7341
60°	8013	6880	7069
65°	7343	6497	6499
70°	6618	5934	5549
75°	6025	5113	4564
80°	5353	4097	3383
85°	4808	3113	2404



TEST NUMBER: P237814

CATALOG NUMBER: 8VT2-LD5-12-FR50-UNV-L850-CD2-WL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.6	3.2
10°-20°	1199.3	9.2
20°-30°	1809.5	13.9
30°-40°	2159.5	16.6
40°-50°	2201.9	16.9
50°-60°	1971.2	15.2
60°-70°	1558.2	12.0
70°-80°	964.1	7.4
80°-90°	405.7	3.1
90°-100°	144.6	1.1
100°-110°	76.7	0.6
110°-120°	50.4	0.4
120°-130°	29.2	0.2
130°-140°	13.0	0.1
140°-150°	1.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3431.5	26.4
0°-40°	5591.0	43.0
0°-60°	9764.1	75.1
0°-90°	12692.2	97.6
90°-120°	271.7	2.1
90°-150°	315.8	2.4
90°-180°	316.0	2.4
0°-180°	13008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4505	4505	4505	4505	4505	
5°	4513	4479	4435	4450	4435	429
15°	4339	4269	4208	4233	4223	1225
25°	3996	3911	3898	3941	3936	1841
35°	3479	3415	3443	3485	3485	2173
45°	2788	2766	2858	2930	2944	2146
55°	1988	2033	2207	2364	2406	1781
65°	1253	1340	1632	1800	1823	1244
75°	649	784	990	1028	1026	690
85°	199	312	405	407	390	206
90°	66	163	242	244	235	43
95°	59	91	150	155	150	48
105°	47	44	81	91	89	50
115°	25	23	55	74	74	26
125°	11	6	34	53	59	10
135°	4	4	13	30	36	4
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: P237814

CATALOG NUMBER: 8VT2-LD5-12-FR50-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4504.7	4504.7	4504.7	4504.7	4504.7
2.5°	4528.0	4502.5	4468.6	4491.9	4481.3
5°	4513.1	4479.2	4434.7	4449.5	4434.7
7.5°	4487.7	4445.3	4388.1	4394.4	4379.6
10°	4449.5	4398.7	4333.0	4339.3	4324.5
12.5°	4400.8	4339.3	4267.2	4290.6	4275.7
15°	4339.3	4269.4	4207.9	4233.3	4222.7
17.5°	4271.5	4195.2	4137.9	4178.2	4169.7
20°	4190.9	4106.1	4070.1	4108.3	4101.9
22.5°	4099.8	4008.6	3989.5	4031.9	4025.6
25°	3995.9	3911.1	3898.4	3940.8	3936.5
27.5°	3883.5	3794.5	3800.9	3836.9	3834.8
30°	3762.7	3684.3	3682.2	3730.9	3728.8
32.5°	3627.0	3548.6	3569.8	3608.0	3601.6
35°	3478.7	3415.1	3442.6	3485.0	3485.0
37.5°	3323.9	3264.6	3300.6	3345.1	3355.7
40°	3148.0	3103.4	3162.8	3215.8	3222.2
42.5°	2969.9	2940.2	3012.3	3071.6	3084.4
45°	2787.6	2766.4	2857.5	2929.6	2944.5
47.5°	2592.6	2592.6	2696.4	2783.4	2810.9
50°	2399.7	2399.7	2531.1	2639.2	2671.0
52.5°	2185.6	2215.2	2365.7	2495.1	2541.7
55°	1988.4	2032.9	2206.8	2363.6	2406.0
57.5°	1793.4	1848.5	2052.0	2234.3	2283.1
60°	1604.7	1678.9	1907.9	2102.9	2158.0
62.5°	1426.7	1505.1	1770.1	1960.9	1999.0
65°	1252.8	1339.7	1632.3	1799.7	1823.1
67.5°	1085.4	1197.7	1488.1	1615.3	1623.8
70°	924.3	1055.7	1324.9	1420.3	1407.6
72.5°	784.3	915.8	1157.4	1223.1	1201.9
75°	648.7	784.3	990.0	1028.1	1026.0
77.5°	521.5	655.0	826.7	847.9	826.7
80°	400.6	534.2	665.6	676.2	657.2
82.5°	298.9	413.4	523.6	530.0	519.4
85°	199.3	311.6	404.9	407.0	390.1
87.5°	120.8	226.8	309.5	313.7	301.0
90°	65.7	163.2	241.7	243.8	235.3
92.5°	61.5	118.7	186.5	190.8	186.5
95°	59.4	91.2	150.5	154.7	150.5
97.5°	59.4	74.2	123.0	129.3	125.1
100°	55.1	61.5	103.9	110.2	108.1
102.5°	53.0	50.9	91.2	99.6	95.4
105°	46.6	44.5	80.6	91.2	89.0
107.5°	42.4	38.2	74.2	84.8	82.7
110°	36.0	33.9	67.8	80.6	80.6



TEST NUMBER: P237814

CATALOG NUMBER: 8VT2-LD5-12-FR50-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.7	27.6	61.5	76.3	76.3
115°	25.4	23.3	55.1	74.2	74.2
117.5°	21.2	19.1	50.9	70.0	72.1
120°	17.0	14.8	44.5	63.6	67.8
122.5°	14.8	10.6	38.2	59.4	63.6
125°	10.6	6.4	33.9	53.0	59.4
127.5°	8.5	6.4	27.6	46.6	53.0
130°	6.4	4.2	23.3	42.4	46.6
132.5°	6.4	4.2	17.0	36.0	40.3
135°	4.2	4.2	12.7	29.7	36.0
137.5°	4.2	2.1	8.5	23.3	29.7
140°	4.2	2.1	4.2	19.1	23.3
142.5°	2.1	2.1	2.1	12.7	17.0
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)