

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: P392780

Luminaire Tested: **12EN-LD2-17-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392780
Test Lab: INNOVATION CENTER (G2)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-17-UNV-L83050-W2A-1-U (3500K)
Description: 1X2 ENCOUNTER, 1700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1864.4 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

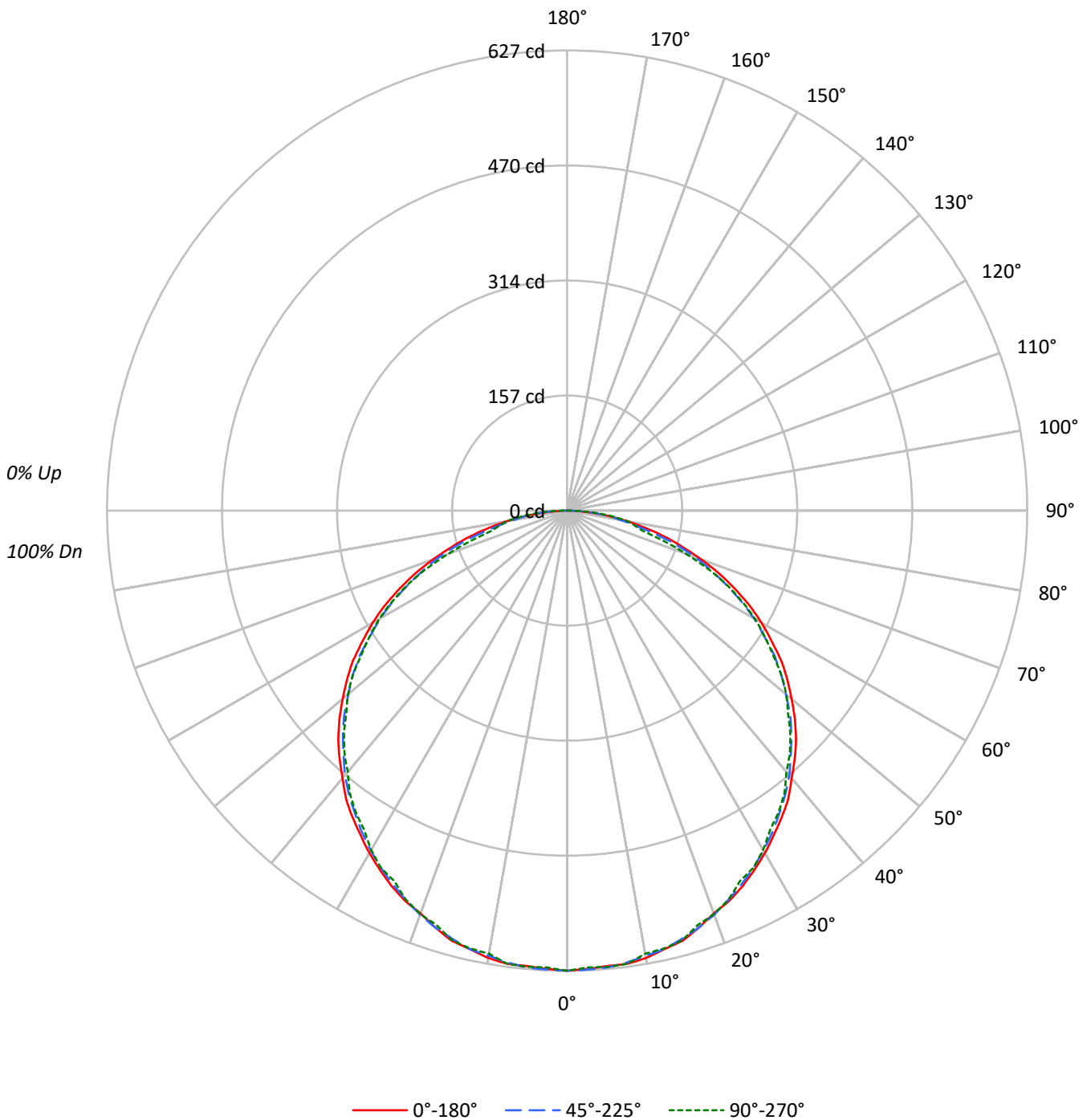
Input Watts (W): 15.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3374	3374	3374
5°	3366	3377	3371
10°	3383	3366	3350
15°	3382	3365	3377
20°	3345	3356	3351
25°	3355	3337	3308
30°	3350	3325	3319
35°	3351	3311	3298
40°	3344	3309	3267
45°	3357	3288	3273
50°	3341	3257	3265
55°	3340	3237	3209
60°	3294	3165	3186
65°	3209	3044	3069
70°	3053	2927	2707
75°	2870	2620	2204
80°	2572	2263	2572
85°	1976	2347	2532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	3.2
10°-20°	170.4	9.1
20°-30°	259.1	13.9
30°-40°	316.0	16.9
40°-50°	334.4	17.9
50°-60°	309.5	16.6
60°-70°	240.0	12.9
70°-80°	134.1	7.2
80°-90°	41.6	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	488.9	26.2
0°-40°	804.9	43.2
0°-60°	1448.7	77.7
0°-90°	1864.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1864.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	623	624	625	621	624	59
15°	607	605	604	604	606	171
25°	565	562	562	562	557	260
35°	510	509	504	500	502	319
45°	441	438	432	429	430	340
55°	356	352	345	342	342	317
65°	252	249	239	241	241	249
75°	138	135	126	113	106	145
85°	32	33	38	40	41	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627	627	627	627	627
2.5°	625	625	626	629	623
5°	623	624	625	621	624
7.5°	623	621	621	621	623
10°	619	614	616	618	613
12.5°	612	612	612	608	611
15°	607	605	604	604	606
17.5°	596	594	596	596	592
20°	584	587	586	583	585
22.5°	576	576	574	573	574
25°	565	562	562	562	557
27.5°	552	551	549	545	549
30°	539	537	535	533	534
32.5°	524	522	520	520	515
35°	510	509	504	500	502
37.5°	495	491	488	485	486
40°	476	474	471	468	465
42.5°	459	458	451	448	449
45°	441	438	432	429	430
47.5°	421	418	412	410	408
50°	399	398	389	386	390
52.5°	378	375	368	365	368
55°	356	352	345	342	342
57.5°	330	328	318	316	319
60°	306	302	294	292	296
62.5°	280	276	267	268	269
65°	252	249	239	241	241
67.5°	224	220	212	209	208
70°	194	191	186	176	172
72.5°	165	163	157	141	138
75°	138	135	126	113	106
77.5°	109	109	96	92	94
80°	83	82	73	80	83
82.5°	57	55	59	62	63
85°	32	33	38	40	41
87.5°	13	16	17	19	20
90°	0	0	0	0	0

(END OF REPORT)