

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: P238784

Luminaire Tested: **22EN-LD2-19-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-118-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-19-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2320.6 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

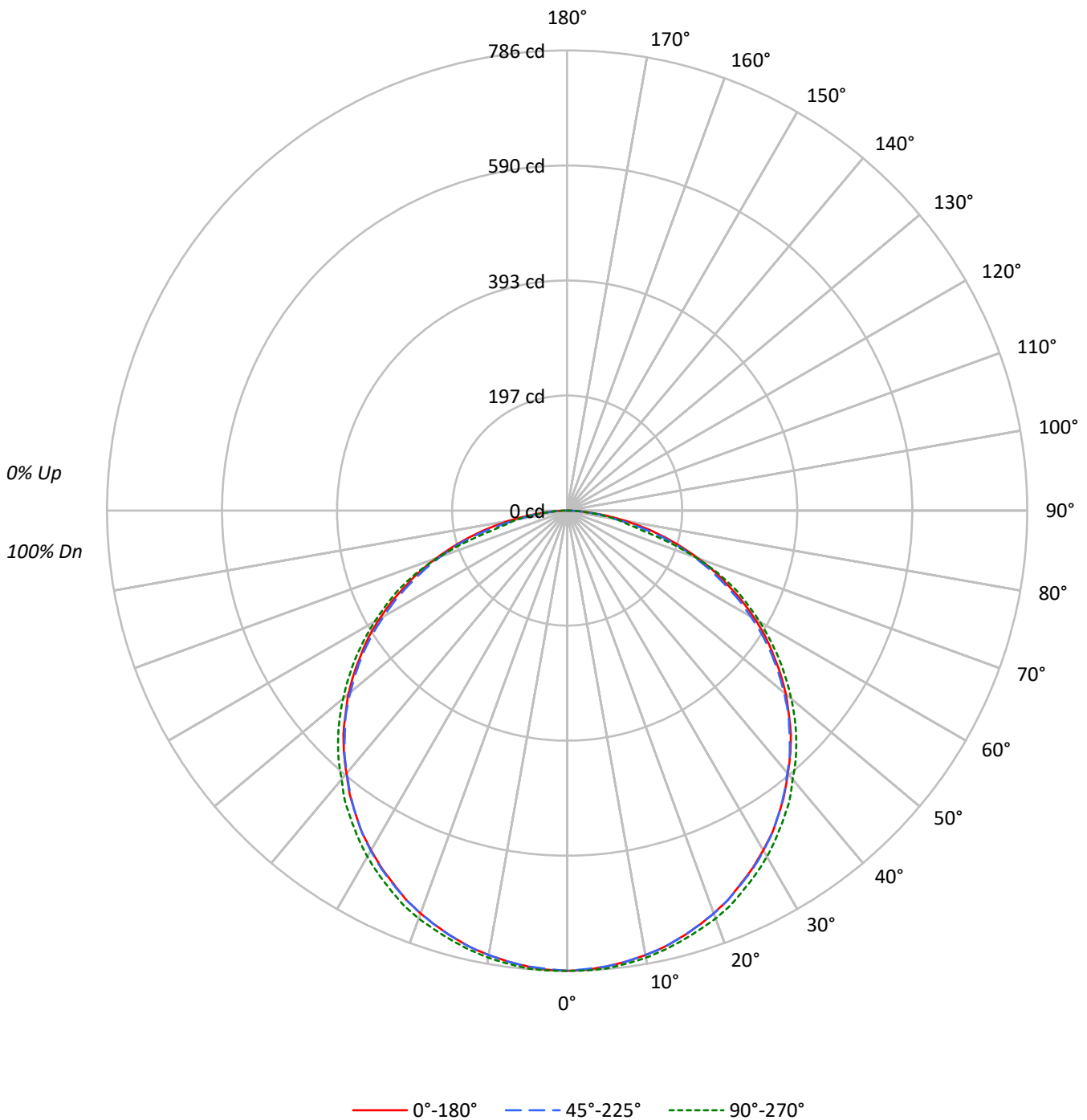
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2517	2517	2517
5°	2512	2512	2524
10°	2507	2507	2522
15°	2501	2501	2521
20°	2495	2495	2527
25°	2483	2487	2524
30°	2477	2481	2525
35°	2467	2467	2517
40°	2451	2446	2505
45°	2448	2432	2507
50°	2430	2406	2488
55°	2401	2375	2467
60°	2370	2318	2431
65°	2306	2244	2395
70°	2223	2156	2189
75°	2094	1962	1672
80°	1842	1538	1604
85°	1337	1297	1253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	3.2
10°-20°	213.4	9.2
20°-30°	325.8	14.0
30°-40°	396.8	17.1
40°-50°	417.6	18.0
50°-60°	384.5	16.6
60°-70°	299.3	12.9
70°-80°	166.1	7.2
80°-90°	42.7	1.8
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°	613.5	26.4
0°-40°	1010.3	43.5
0°-60°	1812.5	78.1
0°-90°	2320.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2320.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	781	781	781	784	785	74
15°	754	754	754	758	760	213
25°	703	704	704	710	714	324
35°	631	631	631	638	644	395
45°	540	537	537	545	554	416
55°	430	429	425	432	442	385
65°	304	301	296	306	316	302
75°	169	166	159	141	135	178
85°	36	34	35	34	34	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	786.1	786.1	786.1	786.1	786.1
2.5°	785.0	783.8	783.8	786.1	786.1
5°	781.4	781.4	781.4	783.8	785.0
7.5°	776.7	776.7	776.7	780.3	780.3
10°	770.9	769.7	770.9	773.2	775.6
12.5°	763.8	762.6	763.8	766.2	768.5
15°	754.4	754.4	754.4	757.9	760.3
17.5°	743.8	742.6	743.8	747.4	750.9
20°	732.1	732.1	732.1	736.8	741.5
22.5°	719.1	718.0	719.1	725.0	729.7
25°	702.7	703.9	703.9	709.7	714.4
27.5°	687.4	686.2	688.6	693.3	699.2
30°	669.8	669.8	671.0	676.8	682.7
32.5°	652.2	651.0	652.2	658.0	663.9
35°	631.0	631.0	631.0	638.1	643.9
37.5°	609.9	608.7	608.7	615.7	624.0
40°	586.4	585.2	585.2	593.4	599.3
42.5°	564.0	562.9	562.9	569.9	578.1
45°	540.5	537.0	537.0	545.2	553.5
47.5°	513.5	511.2	512.3	519.4	527.6
50°	487.7	484.1	483.0	491.2	499.4
52.5°	459.5	458.3	454.8	461.8	471.2
55°	430.1	428.9	425.4	432.4	441.8
57.5°	401.9	398.4	394.8	400.7	411.3
60°	370.1	366.6	361.9	370.1	379.6
62.5°	338.4	333.7	330.2	337.2	347.8
65°	304.3	300.8	296.1	305.5	316.1
67.5°	272.6	269.1	263.2	271.4	278.5
70°	237.4	232.7	230.3	231.5	233.8
72.5°	203.3	200.9	197.4	188.0	185.7
75°	169.2	165.7	158.6	141.0	135.1
77.5°	135.1	132.8	119.9	104.6	104.6
80°	99.9	98.7	83.4	85.8	87.0
82.5°	68.2	65.8	61.1	59.9	59.9
85°	36.4	34.1	35.3	34.1	34.1
87.5°	14.1	14.1	15.3	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)