

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: P238782

Luminaire Tested: **22EN-LD2-19-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238782
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-L835-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2090.9 lumens
Efficiency: N/A
Efficacy: 126.7 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

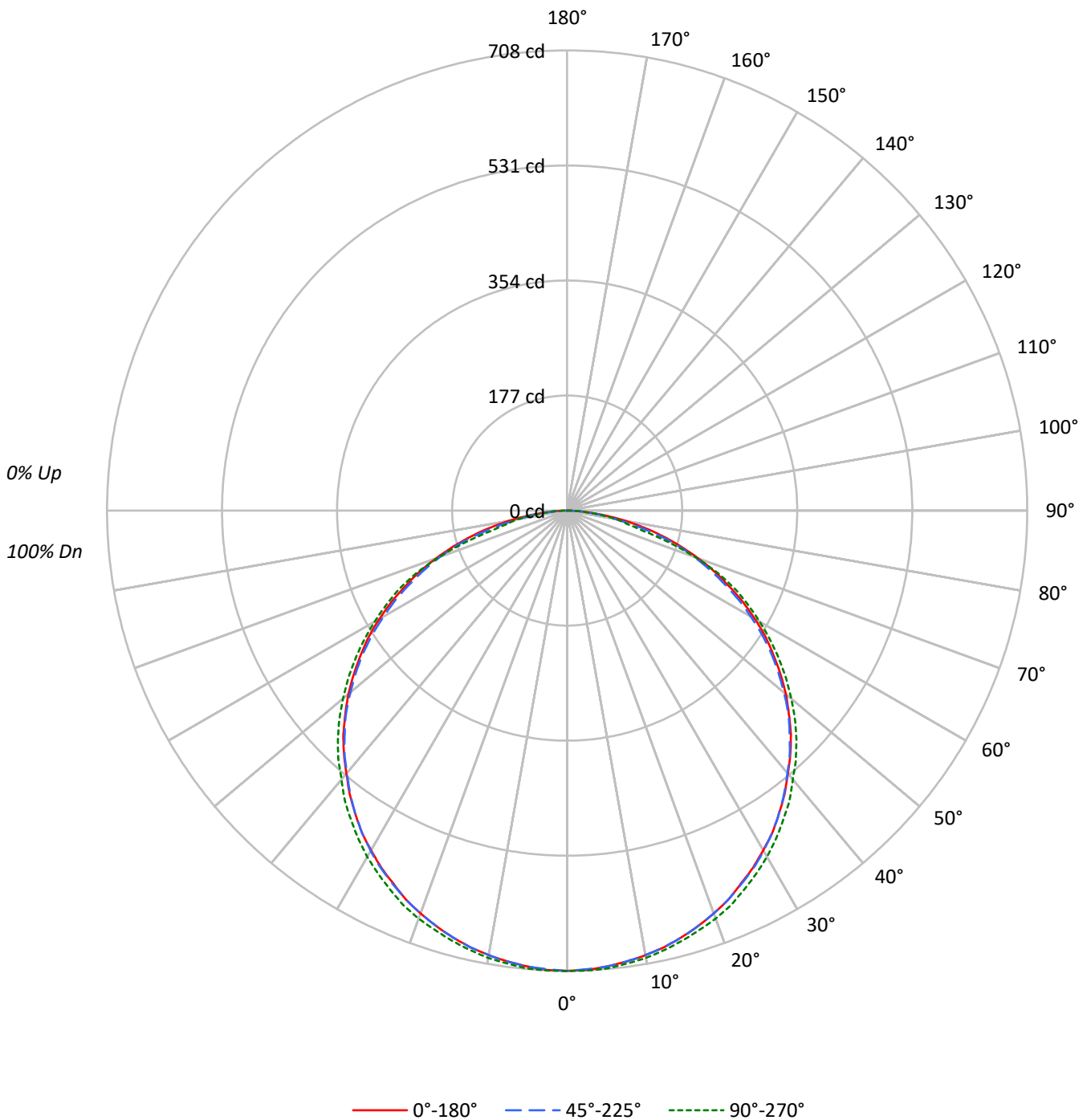
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2268	2268	2268
5°	2263	2263	2274
10°	2259	2259	2272
15°	2254	2254	2271
20°	2248	2248	2277
25°	2237	2241	2275
30°	2232	2236	2275
35°	2223	2223	2268
40°	2209	2204	2257
45°	2206	2192	2259
50°	2189	2168	2242
55°	2164	2140	2223
60°	2136	2089	2191
65°	2078	2022	2158
70°	2003	1943	1973
75°	1887	1768	1507
80°	1660	1387	1444
85°	1205	1168	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.2
10°-20°	192.3	9.2
20°-30°	293.5	14.0
30°-40°	357.5	17.1
40°-50°	376.3	18.0
50°-60°	346.5	16.6
60°-70°	269.7	12.9
70°-80°	149.7	7.2
80°-90°	38.5	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°	552.8	26.4
0°-40°	910.3	43.5
0°-60°	1633.1	78.1
0°-90°	2090.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	704	704	704	706	707	67
15°	680	680	680	683	685	192
25°	633	634	634	640	644	292
35°	569	569	569	575	580	356
45°	487	484	484	491	499	375
55°	388	386	383	390	398	347
65°	274	271	267	275	285	272
75°	152	149	143	127	122	161
85°	33	31	32	31	31	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.3	708.3	708.3	708.3	708.3
2.5°	707.3	706.2	706.2	708.3	708.3
5°	704.1	704.1	704.1	706.2	707.3
7.5°	699.8	699.8	699.8	703.0	703.0
10°	694.6	693.5	694.6	696.7	698.8
12.5°	688.2	687.1	688.2	690.3	692.4
15°	679.7	679.7	679.7	682.9	685.0
17.5°	670.2	669.1	670.2	673.4	676.6
20°	659.6	659.6	659.6	663.8	668.1
22.5°	648.0	646.9	648.0	653.3	657.5
25°	633.1	634.2	634.2	639.5	643.7
27.5°	619.4	618.3	620.4	624.7	630.0
30°	603.5	603.5	604.6	609.9	615.1
32.5°	587.6	586.6	587.6	592.9	598.2
35°	568.6	568.6	568.6	574.9	580.2
37.5°	549.5	548.4	548.4	554.8	562.2
40°	528.3	527.3	527.3	534.7	540.0
42.5°	508.2	507.2	507.2	513.5	520.9
45°	487.0	483.9	483.9	491.3	498.7
47.5°	462.7	460.6	461.6	468.0	475.4
50°	439.4	436.2	435.2	442.6	450.0
52.5°	414.0	412.9	409.7	416.1	424.6
55°	387.5	386.5	383.3	389.6	398.1
57.5°	362.1	358.9	355.7	361.0	370.6
60°	333.5	330.3	326.1	333.5	342.0
62.5°	304.9	300.7	297.5	303.9	313.4
65°	274.2	271.0	266.8	275.3	284.8
67.5°	245.6	242.5	237.2	244.6	250.9
70°	213.9	209.6	207.5	208.6	210.7
72.5°	183.2	181.0	177.9	169.4	167.3
75°	152.5	149.3	142.9	127.1	121.8
77.5°	121.8	119.6	108.0	94.2	94.2
80°	90.0	88.9	75.2	77.3	78.3
82.5°	61.4	59.3	55.1	54.0	54.0
85°	32.8	30.7	31.8	30.7	30.7
87.5°	12.7	12.7	13.8	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)