

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: P238786

Luminaire Tested: **22EN-LD2-25-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238786
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-LD2-25-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: 2648.1 lumens
Efficiency: N/A
Efficacy: 132.4 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

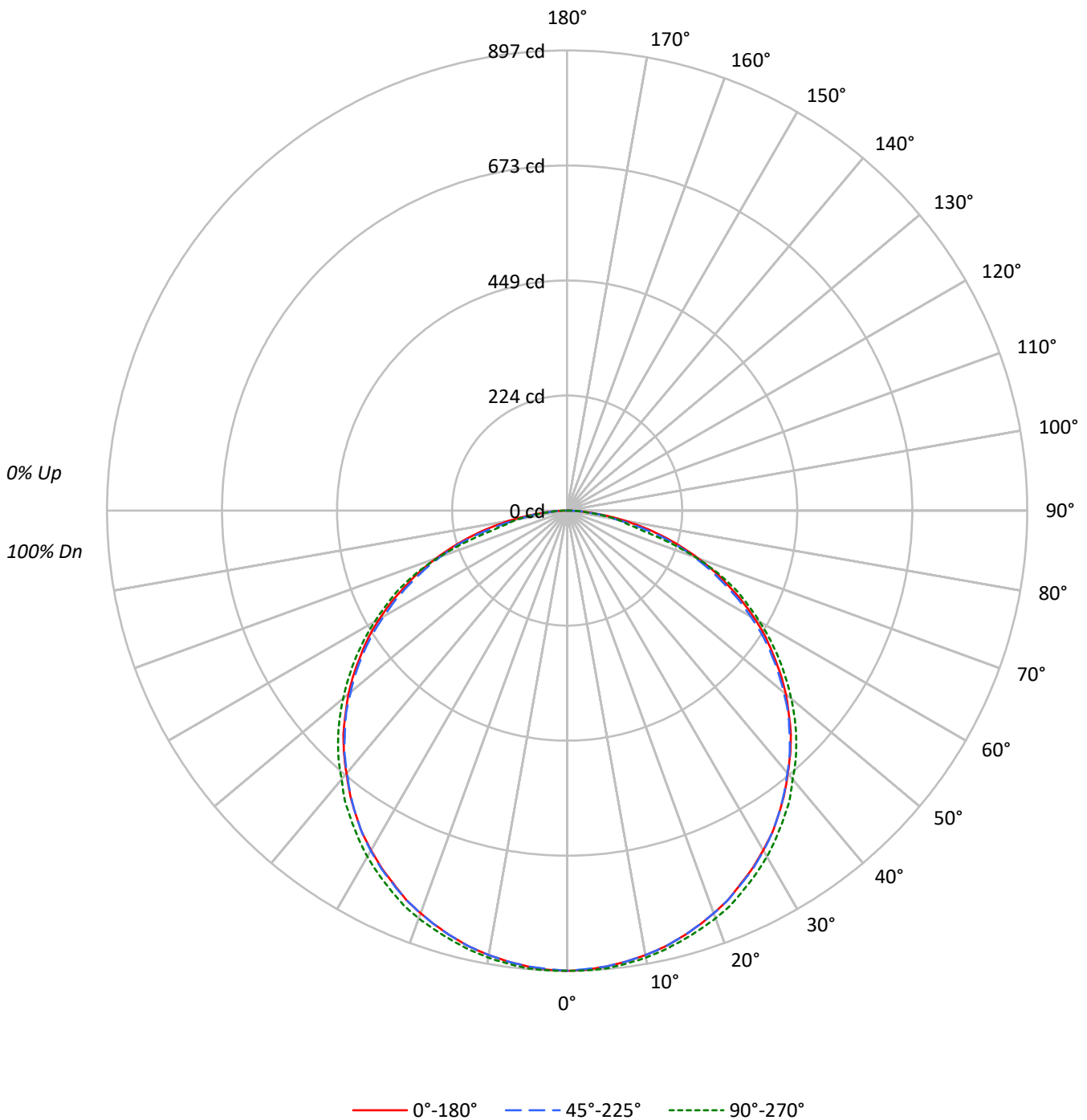
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2873	2873	2873
5°	2867	2867	2879
10°	2861	2861	2878
15°	2854	2854	2876
20°	2847	2847	2884
25°	2834	2838	2881
30°	2826	2831	2881
35°	2815	2815	2873
40°	2797	2792	2859
45°	2793	2775	2861
50°	2773	2746	2839
55°	2740	2710	2815
60°	2705	2645	2774
65°	2632	2561	2733
70°	2537	2461	2498
75°	2389	2240	1908
80°	2102	1756	1829
85°	1529	1477	1429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.2
10°-20°	243.5	9.2
20°-30°	371.8	14.0
30°-40°	452.8	17.1
40°-50°	476.6	18.0
50°-60°	438.8	16.6
60°-70°	341.5	12.9
70°-80°	189.6	7.2
80°-90°	48.7	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°	700.1	26.4
0°-40°	1152.9	43.5
0°-60°	2068.3	78.1
0°-90°	2648.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	892	892	892	894	896	85
15°	861	861	861	865	868	243
25°	802	803	803	810	815	370
35°	720	720	720	728	735	451
45°	617	613	613	622	632	475
55°	491	489	485	494	504	439
65°	347	343	338	349	361	344
75°	193	189	181	161	154	204
85°	42	39	40	39	39	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.1	897.1	897.1	897.1	897.1
2.5°	895.7	894.4	894.4	897.1	897.1
5°	891.7	891.7	891.7	894.4	895.7
7.5°	886.4	886.4	886.4	890.4	890.4
10°	879.7	878.3	879.7	882.3	885.0
12.5°	871.6	870.3	871.6	874.3	877.0
15°	860.9	860.9	860.9	864.9	867.6
17.5°	848.8	847.5	848.8	852.8	856.9
20°	835.4	835.4	835.4	840.8	846.1
22.5°	820.7	819.3	820.7	827.4	832.7
25°	801.9	803.2	803.2	809.9	815.3
27.5°	784.4	783.1	785.8	791.2	797.9
30°	764.3	764.3	765.7	772.4	779.1
32.5°	744.2	742.9	744.2	750.9	757.6
35°	720.1	720.1	720.1	728.1	734.8
37.5°	695.9	694.6	694.6	702.7	712.0
40°	669.1	667.8	667.8	677.2	683.9
42.5°	643.6	642.3	642.3	650.4	659.7
45°	616.8	612.8	612.8	622.2	631.6
47.5°	586.0	583.3	584.6	592.7	602.1
50°	556.5	552.5	551.1	560.5	569.9
52.5°	524.3	523.0	518.9	527.0	537.7
55°	490.8	489.4	485.4	493.5	504.2
57.5°	458.6	454.6	450.6	457.3	469.3
60°	422.4	418.4	413.0	422.4	433.1
62.5°	386.2	380.8	376.8	384.8	396.9
65°	347.3	343.3	337.9	348.6	360.7
67.5°	311.1	307.1	300.4	309.8	317.8
70°	270.9	265.5	262.8	264.2	266.8
72.5°	232.0	229.3	225.3	214.5	211.9
75°	193.1	189.1	181.0	160.9	154.2
77.5°	154.2	151.5	136.8	119.3	119.3
80°	114.0	112.6	95.2	97.9	99.2
82.5°	77.8	75.1	69.7	68.4	68.4
85°	41.6	38.9	40.2	38.9	38.9
87.5°	16.1	16.1	17.4	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)