

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: P238787

Luminaire Tested: **22EN-LD2-25-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238787
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-L840-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2700.7 lumens
Efficiency: N/A
Efficacy: 135.0 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

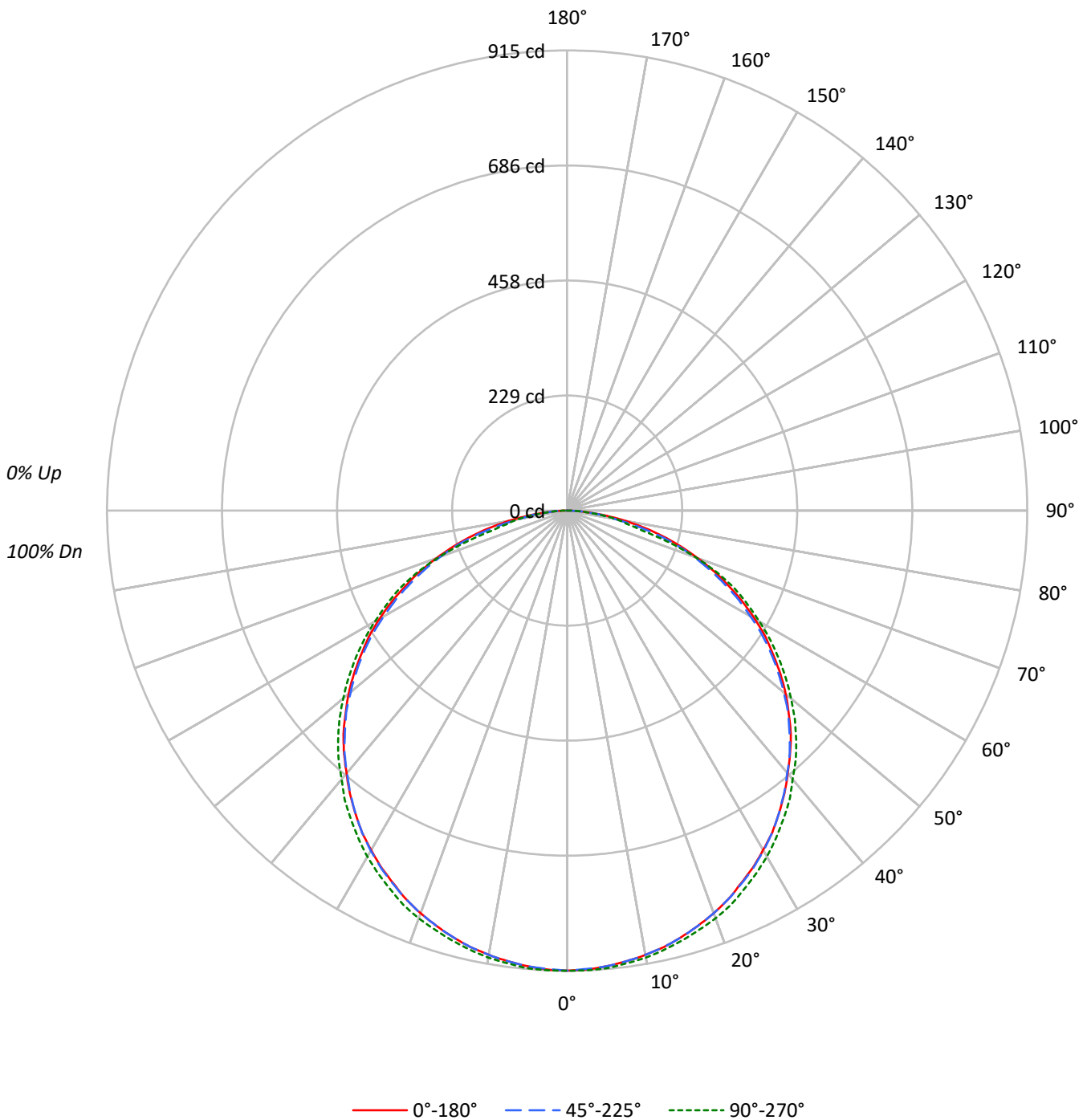
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2930	2930	2930
5°	2923	2923	2937
10°	2917	2917	2935
15°	2911	2911	2934
20°	2904	2904	2941
25°	2890	2895	2938
30°	2883	2888	2938
35°	2871	2871	2930
40°	2853	2847	2916
45°	2849	2831	2917
50°	2827	2800	2896
55°	2794	2764	2871
60°	2759	2698	2829
65°	2684	2611	2788
70°	2586	2509	2548
75°	2436	2284	1946
80°	2143	1791	1866
85°	1558	1507	1459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.2
10°-20°	248.4	9.2
20°-30°	379.1	14.0
30°-40°	461.8	17.1
40°-50°	486.0	18.0
50°-60°	447.5	16.6
60°-70°	348.3	12.9
70°-80°	193.3	7.2
80°-90°	49.7	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°	714.0	26.4
0°-40°	1175.8	43.5
0°-60°	2109.3	78.1
0°-90°	2700.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2700.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	909	909	909	912	914	86
15°	878	878	878	882	885	248
25°	818	819	819	826	832	377
35°	734	734	734	743	749	460
45°	629	625	625	634	644	484
55°	500	499	495	503	514	448
65°	354	350	345	356	368	351
75°	197	193	185	164	157	208
85°	42	40	41	40	40	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.9	914.9	914.9	914.9	914.9
2.5°	913.5	912.1	912.1	914.9	914.9
5°	909.4	909.4	909.4	912.1	913.5
7.5°	903.9	903.9	903.9	908.0	908.0
10°	897.1	895.7	897.1	899.8	902.6
12.5°	888.9	887.5	888.9	891.6	894.4
15°	878.0	878.0	878.0	882.1	884.8
17.5°	865.6	864.3	865.6	869.8	873.9
20°	852.0	852.0	852.0	857.4	862.9
22.5°	836.9	835.6	836.9	843.8	849.2
25°	817.8	819.2	819.2	826.0	831.5
27.5°	800.0	798.6	801.4	806.8	813.7
30°	779.5	779.5	780.9	787.7	794.5
32.5°	759.0	757.6	759.0	765.8	772.7
35°	734.4	734.4	734.4	742.6	749.4
37.5°	709.8	708.4	708.4	716.6	726.2
40°	682.4	681.0	681.0	690.6	697.4
42.5°	656.4	655.0	655.0	663.3	672.8
45°	629.1	625.0	625.0	634.5	644.1
47.5°	597.6	594.9	596.2	604.5	614.0
50°	567.5	563.4	562.1	571.6	581.2
52.5°	534.7	533.3	529.2	537.4	548.4
55°	500.5	499.2	495.0	503.3	514.2
57.5°	467.7	463.6	459.5	466.3	478.6
60°	430.8	426.7	421.2	430.8	441.7
62.5°	393.9	388.4	384.3	392.5	404.8
65°	354.2	350.1	344.6	355.6	367.9
67.5°	317.3	313.2	306.3	315.9	324.1
70°	276.2	270.8	268.0	269.4	272.1
72.5°	236.6	233.8	229.7	218.8	216.1
75°	196.9	192.8	184.6	164.1	157.3
77.5°	157.3	154.5	139.5	121.7	121.7
80°	116.2	114.9	97.1	99.8	101.2
82.5°	79.3	76.6	71.1	69.7	69.7
85°	42.4	39.7	41.0	39.7	39.7
87.5°	16.4	16.4	17.8	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)