

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: P238835

Luminaire Tested: **22EN-LD2-25-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238835
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-L940-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2384.7 lumens
Efficiency: N/A
Efficacy: 119.2 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

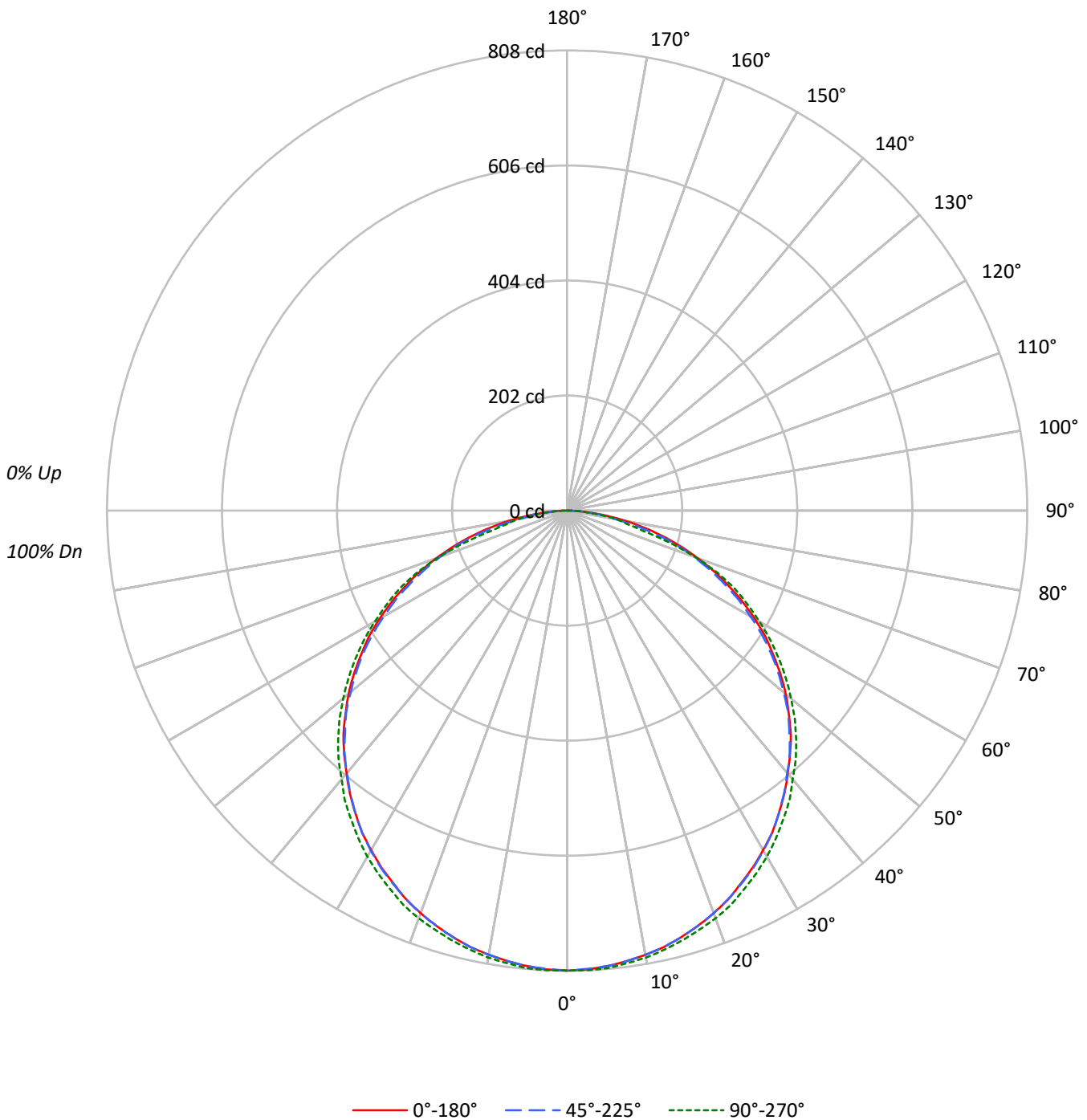
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2587	2587	2587
5°	2581	2581	2593
10°	2576	2576	2592
15°	2570	2570	2590
20°	2564	2564	2597
25°	2552	2556	2594
30°	2545	2550	2594
35°	2535	2535	2587
40°	2519	2514	2574
45°	2516	2499	2576
50°	2497	2473	2557
55°	2468	2440	2535
60°	2436	2382	2498
65°	2370	2306	2461
70°	2284	2216	2250
75°	2152	2017	1719
80°	1892	1581	1649
85°	1374	1330	1286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.2
10°-20°	219.3	9.2
20°-30°	334.8	14.0
30°-40°	407.7	17.1
40°-50°	429.2	18.0
50°-60°	395.1	16.6
60°-70°	307.6	12.9
70°-80°	170.7	7.2
80°-90°	43.9	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°	630.5	26.4
0°-40°	1038.2	43.5
0°-60°	1862.5	78.1
0°-90°	2384.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2384.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	803	803	803	805	807	76
15°	775	775	775	779	781	219
25°	722	723	723	729	734	333
35°	648	648	648	656	662	406
45°	556	552	552	560	569	428
55°	442	441	437	444	454	395
65°	313	309	304	314	325	310
75°	174	170	163	145	139	183
85°	37	35	36	35	35	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.8	807.8	807.8	807.8	807.8
2.5°	806.6	805.4	805.4	807.8	807.8
5°	803.0	803.0	803.0	805.4	806.6
7.5°	798.2	798.2	798.2	801.8	801.8
10°	792.1	790.9	792.1	794.6	797.0
12.5°	784.9	783.7	784.9	787.3	789.7
15°	775.2	775.2	775.2	778.9	781.3
17.5°	764.4	763.2	764.4	768.0	771.6
20°	752.3	752.3	752.3	757.1	762.0
22.5°	739.0	737.8	739.0	745.0	749.9
25°	722.1	723.3	723.3	729.4	734.2
27.5°	706.4	705.2	707.6	712.4	718.5
30°	688.3	688.3	689.5	695.5	701.6
32.5°	670.2	669.0	670.2	676.2	682.3
35°	648.4	648.4	648.4	655.7	661.7
37.5°	626.7	625.5	625.5	632.7	641.2
40°	602.6	601.4	601.4	609.8	615.8
42.5°	579.6	578.4	578.4	585.7	594.1
45°	555.5	551.8	551.8	560.3	568.7
47.5°	527.7	525.3	526.5	533.7	542.2
50°	501.1	497.5	496.3	504.7	513.2
52.5°	472.1	470.9	467.3	474.6	484.2
55°	442.0	440.7	437.1	444.4	454.0
57.5°	413.0	409.4	405.7	411.8	422.6
60°	380.4	376.8	371.9	380.4	390.0
62.5°	347.8	342.9	339.3	346.6	357.4
65°	312.8	309.1	304.3	314.0	324.8
67.5°	280.1	276.5	270.5	278.9	286.2
70°	243.9	239.1	236.7	237.9	240.3
72.5°	208.9	206.5	202.9	193.2	190.8
75°	173.9	170.3	163.0	144.9	138.9
77.5°	138.9	136.5	123.2	107.5	107.5
80°	102.6	101.4	85.7	88.1	89.4
82.5°	70.0	67.6	62.8	61.6	61.6
85°	37.4	35.0	36.2	35.0	35.0
87.5°	14.5	14.5	15.7	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)