

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: P238838

Luminaire Tested: **22EN-LD2-30-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238838
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-LD2-30-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2649.8 lumens
Efficiency: N/A
Efficacy: 106.4 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

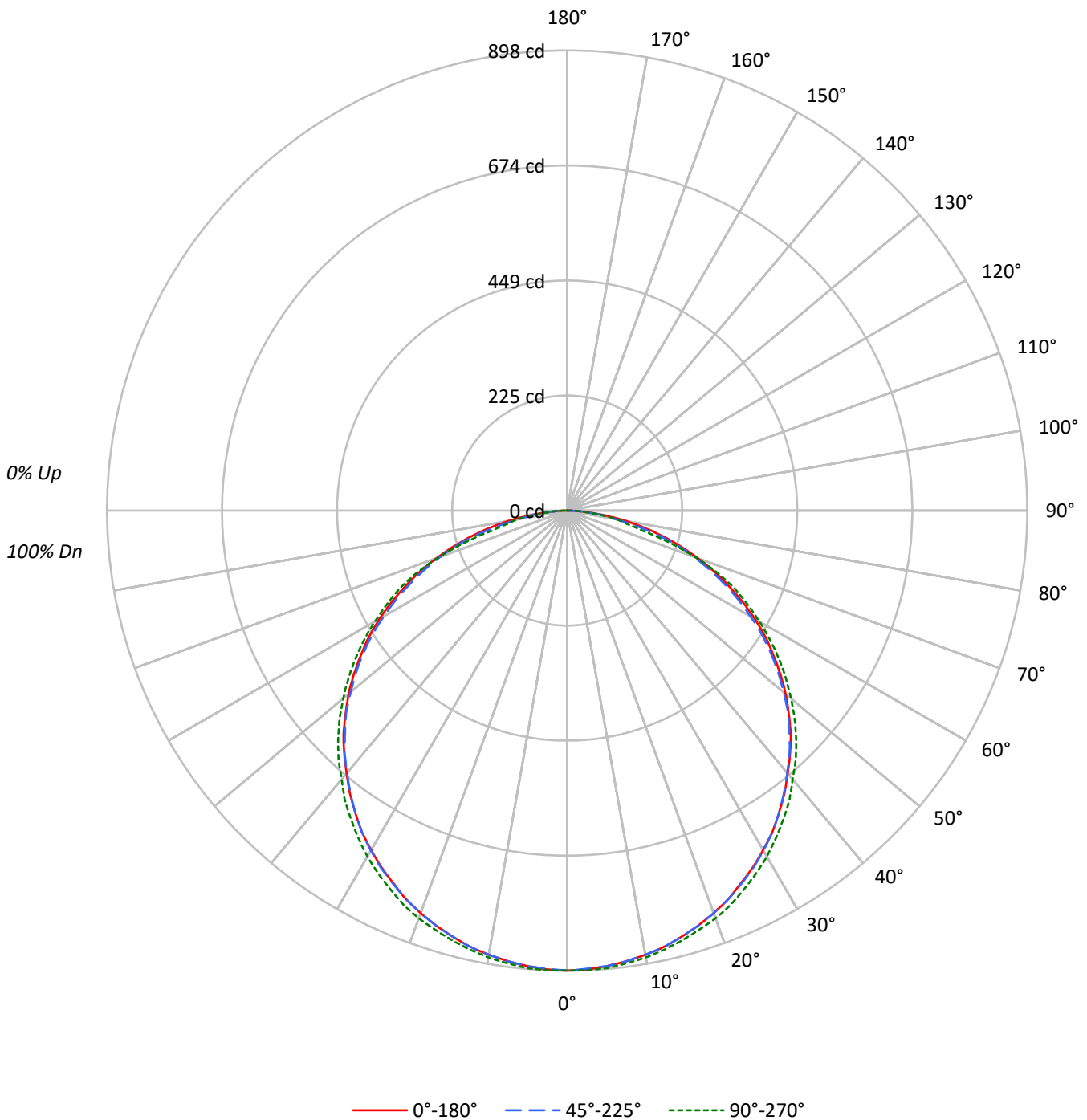
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2875	2875	2875
5°	2868	2868	2881
10°	2862	2862	2880
15°	2856	2856	2878
20°	2849	2849	2886
25°	2835	2840	2883
30°	2828	2833	2883
35°	2817	2817	2875
40°	2799	2793	2861
45°	2795	2777	2862
50°	2774	2748	2841
55°	2742	2712	2817
60°	2707	2647	2776
65°	2633	2562	2735
70°	2537	2463	2500
75°	2391	2241	1909
80°	2104	1758	1831
85°	1529	1481	1429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.2
10°-20°	243.7	9.2
20°-30°	372.0	14.0
30°-40°	453.1	17.1
40°-50°	476.9	18.0
50°-60°	439.1	16.6
60°-70°	341.8	12.9
70°-80°	189.7	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°	700.6	26.4
0°-40°	1153.6	43.5
0°-60°	2069.6	78.1
0°-90°	2649.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2649.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	892	892	892	895	896	85
15°	861	861	861	866	868	243
25°	802	804	804	810	816	370
35°	720	720	720	729	735	451
45°	617	613	613	623	632	475
55°	491	490	486	494	504	439
65°	348	344	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°	897.7	897.7	897.7	897.7	897.7
2.5°	896.3	895.0	895.0	897.7	897.7
5°	892.3	892.3	892.3	895.0	896.3
7.5°	886.9	886.9	886.9	891.0	891.0
10°	880.2	878.9	880.2	882.9	885.6
12.5°	872.2	870.8	872.2	874.9	877.5
15°	861.4	861.4	861.4	865.5	868.1
17.5°	849.4	848.0	849.4	853.4	857.4
20°	835.9	835.9	835.9	841.3	846.7
22.5°	821.2	819.8	821.2	827.9	833.3
25°	802.4	803.7	803.7	810.5	815.8
27.5°	785.0	783.6	786.3	791.7	798.4
30°	764.8	764.8	766.2	772.9	779.6
32.5°	744.7	743.4	744.7	751.4	758.1
35°	720.5	720.5	720.5	728.6	735.3
37.5°	696.4	695.1	695.1	703.1	712.5
40°	669.6	668.2	668.2	677.6	684.3
42.5°	644.1	642.7	642.7	650.8	660.2
45°	617.2	613.2	613.2	622.6	632.0
47.5°	586.4	583.7	585.0	593.1	602.5
50°	556.8	552.8	551.5	560.9	570.3
52.5°	524.6	523.3	519.3	527.3	538.1
55°	491.1	489.8	485.7	493.8	504.5
57.5°	458.9	454.9	450.8	457.6	469.6
60°	422.7	418.6	413.3	422.7	433.4
62.5°	386.4	381.1	377.0	385.1	397.2
65°	347.5	343.5	338.1	348.9	360.9
67.5°	311.3	307.3	300.6	310.0	318.0
70°	271.0	265.7	263.0	264.3	267.0
72.5°	232.1	229.4	225.4	214.7	212.0
75°	193.2	189.2	181.1	161.0	154.3
77.5°	154.3	151.6	136.9	119.4	119.4
80°	114.1	112.7	95.3	98.0	99.3
82.5°	77.8	75.1	69.8	68.4	68.4
85°	41.6	38.9	40.3	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)