

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: P238814

Luminaire Tested: **22ENA-LD2-30-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238814
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: 22ENA-LD2-30-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3000.7 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 1.83' x H: 0')
CIE Type: Direct

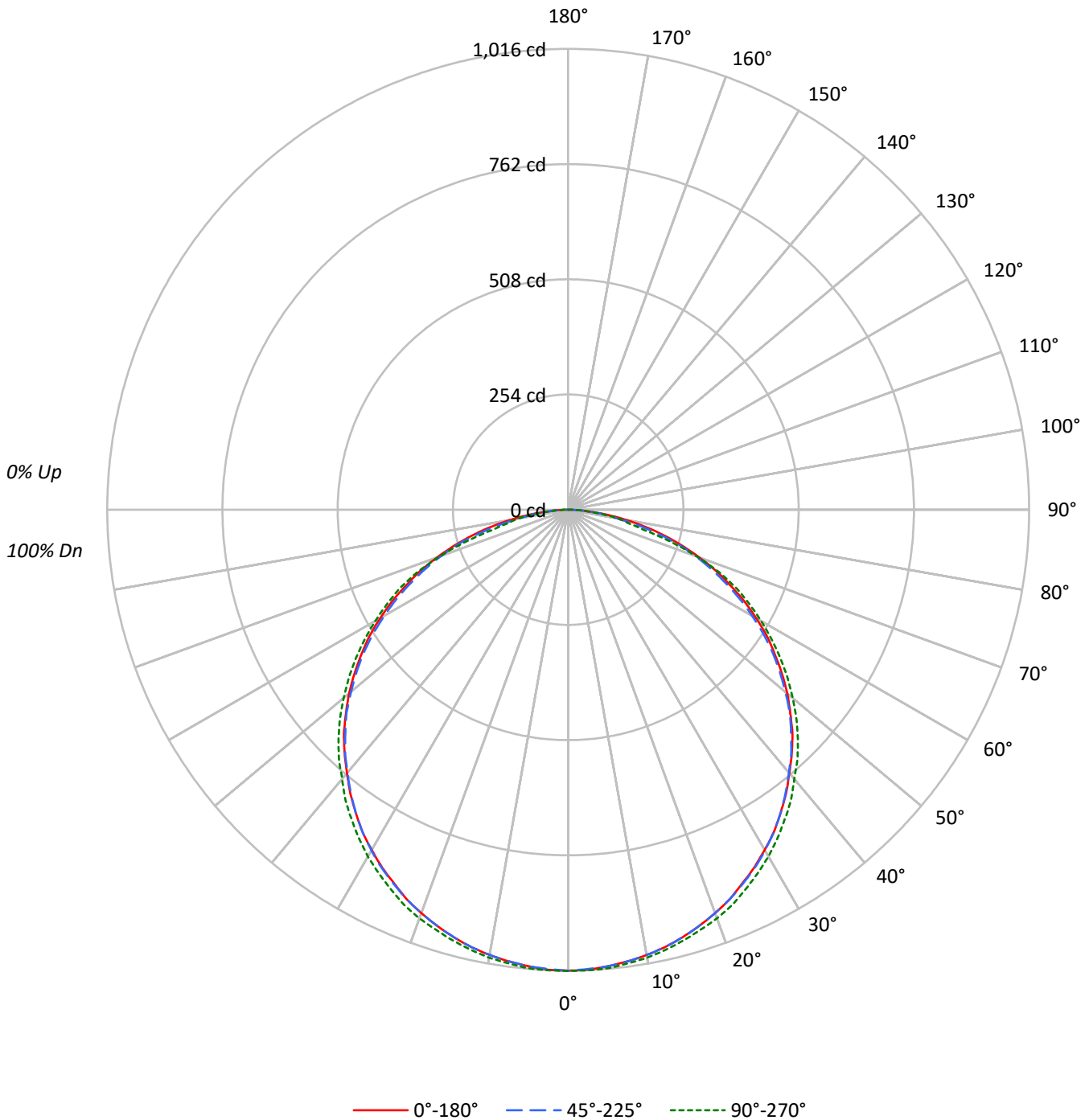
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3581	3581	3581
5°	3573	3573	3589
10°	3566	3566	3587
15°	3558	3558	3585
20°	3549	3549	3594
25°	3532	3538	3591
30°	3523	3529	3591
35°	3509	3509	3581
40°	3487	3480	3563
45°	3482	3459	3566
50°	3456	3423	3539
55°	3415	3378	3509
60°	3372	3297	3458
65°	3280	3192	3407
70°	3161	3067	3115
75°	2978	2792	2378
80°	2621	2189	2280
85°	1904	1843	1782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	3.2
10°-20°	275.9	9.2
20°-30°	421.2	14.0
30°-40°	513.1	17.1
40°-50°	540.0	18.0
50°-60°	497.2	16.6
60°-70°	387.0	12.9
70°-80°	214.8	7.2
80°-90°	55.2	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°	793.3	26.4
0°-40°	1306.4	43.5
0°-60°	2343.7	78.1
0°-90°	3000.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3000.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1010	1010	1010	1014	1015	96
15°	976	976	976	980	983	275
25°	909	910	910	918	924	419
35°	816	816	816	825	833	511
45°	699	694	694	705	716	538
55°	556	555	550	559	571	498
65°	394	389	383	395	409	390
75°	219	214	205	182	175	231
85°	47	44	46	44	44	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1015.0	1013.5	1013.5	1016.5	1016.5
5°	1010.4	1010.4	1010.4	1013.5	1015.0
7.5°	1004.4	1004.4	1004.4	1008.9	1008.9
10°	996.8	995.3	996.8	999.8	1002.8
12.5°	987.7	986.1	987.7	990.7	993.7
15°	975.5	975.5	975.5	980.1	983.1
17.5°	961.8	960.3	961.8	966.4	970.9
20°	946.6	946.6	946.6	952.7	958.8
22.5°	929.9	928.4	929.9	937.5	943.6
25°	908.6	910.2	910.2	917.8	923.8
27.5°	888.9	887.4	890.4	896.5	904.1
30°	866.1	866.1	867.6	875.2	882.8
32.5°	843.3	841.8	843.3	850.9	858.5
35°	816.0	816.0	816.0	825.1	832.7
37.5°	788.6	787.1	787.1	796.2	806.8
40°	758.2	756.7	756.7	767.3	774.9
42.5°	729.3	727.8	727.8	736.9	747.6
45°	699.0	694.4	694.4	705.0	715.7
47.5°	664.0	661.0	662.5	671.6	682.2
50°	630.6	626.0	624.5	635.1	645.8
52.5°	594.1	592.6	588.0	597.2	609.3
55°	556.1	554.6	550.0	559.2	571.3
57.5°	519.7	515.1	510.5	518.1	531.8
60°	478.6	474.1	468.0	478.6	490.8
62.5°	437.6	431.5	427.0	436.1	449.8
65°	393.5	389.0	382.9	395.1	408.7
67.5°	352.5	348.0	340.4	351.0	360.1
70°	306.9	300.9	297.8	299.3	302.4
72.5°	262.9	259.8	255.3	243.1	240.1
75°	218.8	214.2	205.1	182.3	174.7
77.5°	174.7	171.7	155.0	135.2	135.2
80°	129.2	127.6	107.9	110.9	112.4
82.5°	88.1	85.1	79.0	77.5	77.5
85°	47.1	44.1	45.6	44.1	44.1
87.5°	18.2	18.2	19.8	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)