

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: P238918

Luminaire Tested: **24ENA-LD2-30-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ENA-LD2-30-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3038.9 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.67' x L: 3.83' x H: 0')
CIE Type: Direct

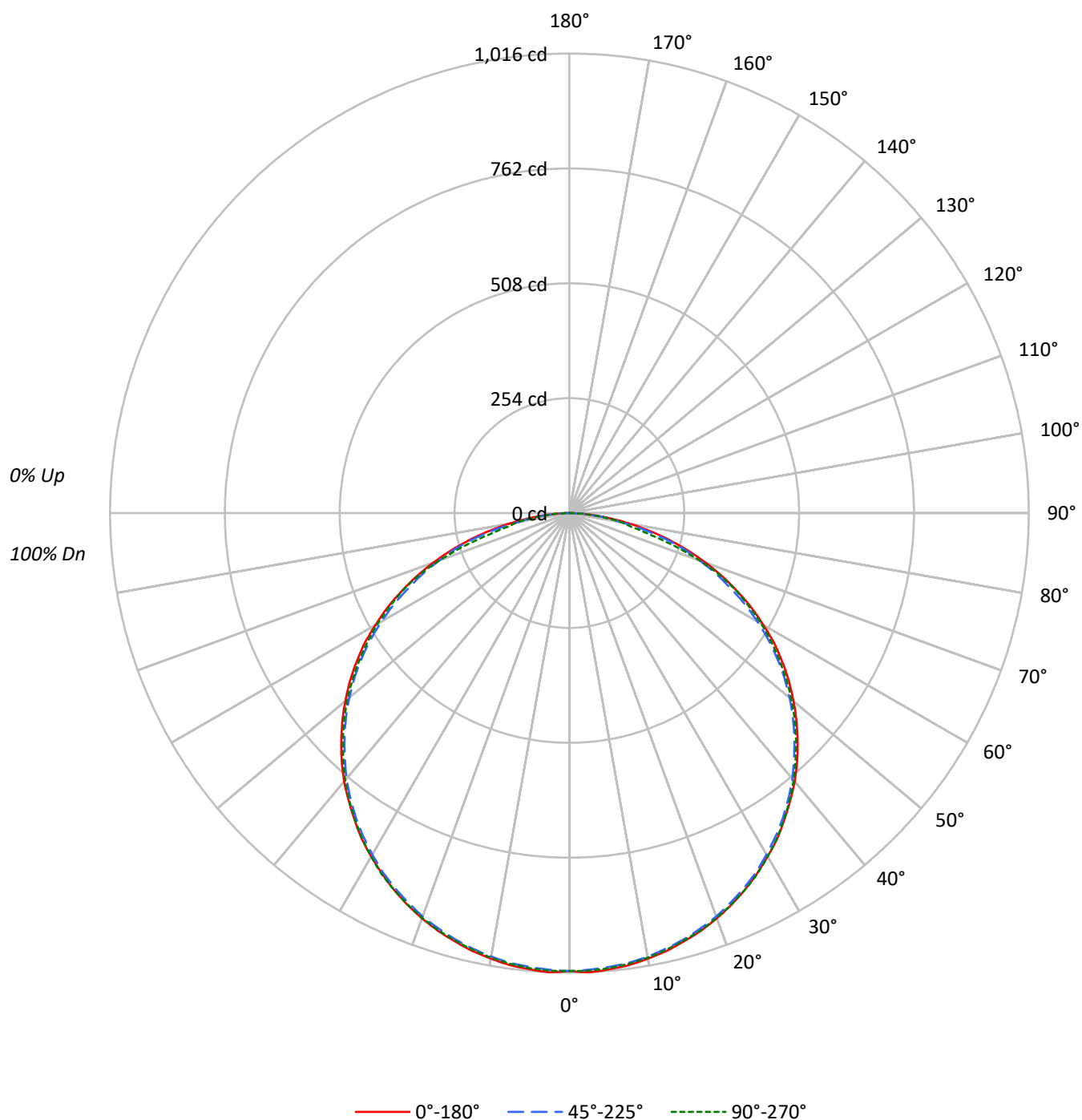
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	97	94	97	94	91	93	90	88	90	87	85	83		
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58		
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1706	1706	1706
5°	1713	1704	1708
10°	1712	1703	1708
15°	1710	1702	1707
20°	1710	1702	1708
25°	1708	1700	1708
30°	1706	1696	1706
35°	1704	1692	1702
40°	1705	1687	1697
45°	1700	1676	1688
50°	1696	1666	1681
55°	1690	1649	1665
60°	1669	1617	1652
65°	1635	1567	1625
70°	1576	1511	1507
75°	1484	1418	1198
80°	1306	1109	1140
85°	1030	970	897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	3.2
10°-20°	275.9	9.1
20°-30°	422.1	13.9
30°-40°	516.0	17.0
40°-50°	545.3	17.9
50°-60°	505.2	16.6
60°-70°	395.8	13.0
70°-80°	223.8	7.4
80°-90°	58.9	1.9
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°	793.9	26.1
0°-40°	1309.9	43.1
0°-60°	2360.4	77.7
0°-90°	3038.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3038.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1013	1013	1013	1013	1013	
5°	1013	1010	1008	1007	1010	96
15°	980	976	976	975	978	277
25°	919	915	914	914	919	424
35°	829	825	823	823	827	519
45°	714	709	704	704	709	551
55°	575	569	561	563	567	514
65°	410	403	393	398	408	406
75°	228	222	218	194	184	240
85°	53	50	50	48	46	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.7	1012.7	1012.7	1012.7	1012.7
2.5°	1016.5	1012.1	1010.8	1009.6	1012.7
5°	1012.7	1009.6	1007.6	1007.0	1010.2
7.5°	1008.3	1004.5	1003.2	1001.9	1005.1
10°	1000.7	996.9	995.6	994.9	998.1
12.5°	991.8	987.3	986.7	986.1	989.2
15°	980.3	976.5	975.9	975.3	978.4
17.5°	968.3	964.5	963.2	962.6	967.0
20°	953.7	949.9	949.2	948.6	952.4
22.5°	937.2	933.4	932.1	932.7	936.5
25°	918.8	914.9	914.3	914.3	918.8
27.5°	898.4	894.6	894.6	894.6	899.7
30°	876.9	873.7	871.8	872.4	876.9
32.5°	854.6	849.5	848.3	848.9	853.4
35°	828.6	824.8	822.9	822.9	827.3
37.5°	801.9	798.1	795.6	795.6	800.0
40°	775.3	769.5	767.0	765.7	771.5
42.5°	745.4	741.0	735.3	735.3	740.3
45°	713.7	708.6	703.5	703.5	708.6
47.5°	681.3	676.2	670.5	670.5	675.6
50°	647.0	641.9	635.6	635.6	641.3
52.5°	612.1	606.4	599.4	598.7	604.5
55°	575.3	568.9	561.3	562.6	567.0
57.5°	537.8	529.5	521.9	521.9	528.9
60°	495.3	488.3	480.0	481.3	490.2
62.5°	454.6	445.7	437.5	440.6	448.3
65°	410.2	402.6	393.0	398.1	407.6
67.5°	366.4	358.1	350.5	356.8	361.3
70°	320.0	312.4	306.7	306.7	306.0
72.5°	273.7	266.7	265.4	253.3	245.7
75°	227.9	221.6	217.8	194.3	184.1
77.5°	180.3	178.4	166.4	141.6	138.4
80°	134.6	135.9	114.3	114.9	117.5
82.5°	92.7	90.8	85.7	81.9	80.6
85°	53.3	50.2	50.2	47.6	46.4
87.5°	17.8	19.7	19.7	19.7	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)