

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: P238878

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238878
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: 24EN-LD2-30-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3116.8 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

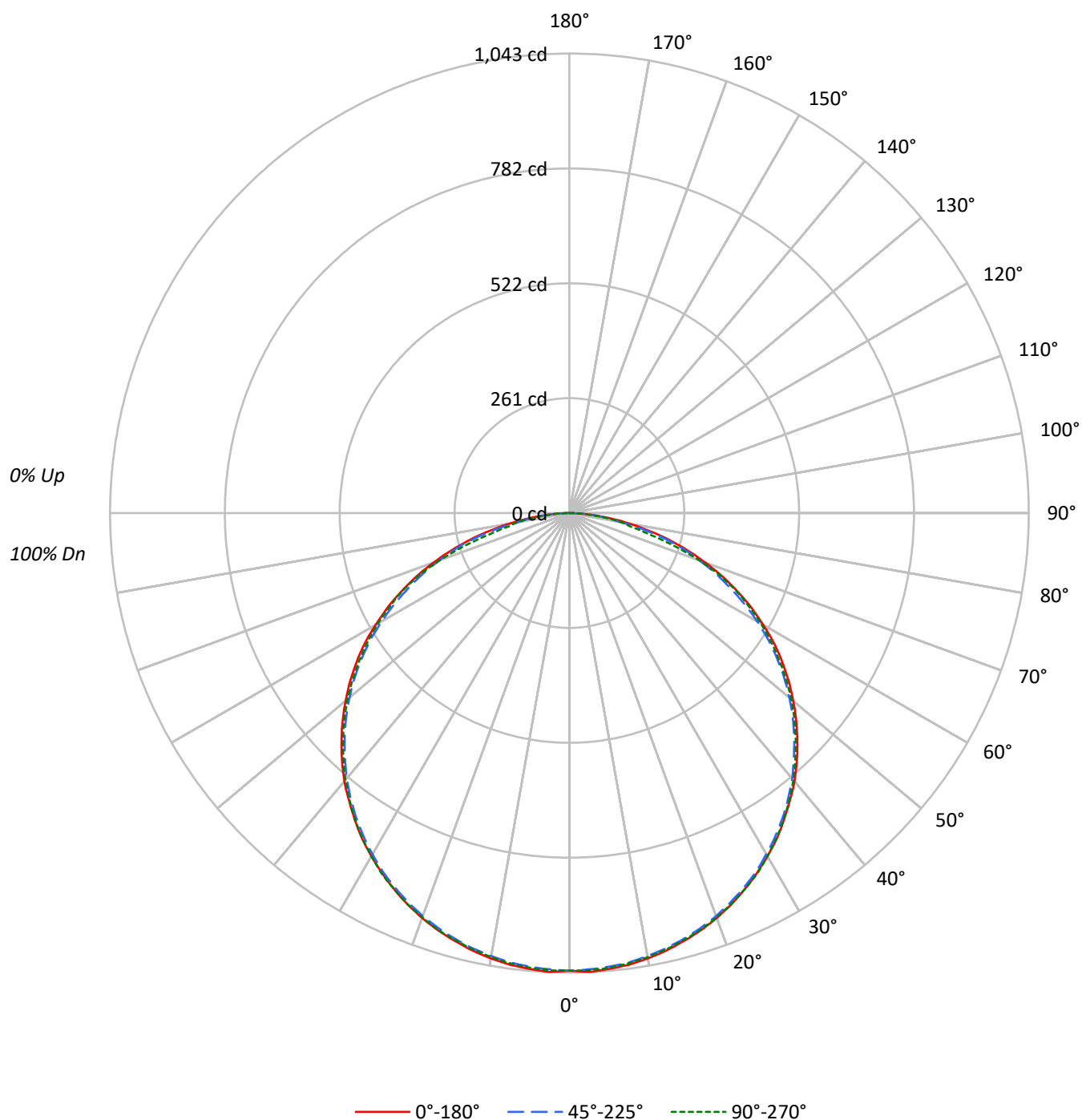
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1591	1591	1591
5°	1597	1589	1593
10°	1596	1588	1592
15°	1594	1587	1591
20°	1594	1587	1592
25°	1592	1585	1592
30°	1590	1581	1590
35°	1589	1578	1586
40°	1590	1573	1582
45°	1586	1563	1574
50°	1581	1553	1567
55°	1575	1537	1553
60°	1556	1508	1540
65°	1525	1461	1515
70°	1470	1408	1406
75°	1384	1322	1118
80°	1218	1034	1063
85°	961	903	835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	3.2
10°-20°	282.9	9.1
20°-30°	433.0	13.9
30°-40°	529.2	17.0
40°-50°	559.2	17.9
50°-60°	518.2	16.6
60°-70°	406.0	13.0
70°-80°	229.5	7.4
80°-90°	60.4	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°	814.3	26.1
0°-40°	1343.5	43.1
0°-60°	2420.9	77.7
0°-90°	3116.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3116.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1039	1035	1034	1033	1036	99
15°	1006	1002	1001	1000	1004	284
25°	942	938	938	938	942	434
35°	850	846	844	844	848	532
45°	732	727	722	722	727	565
55°	590	584	576	577	582	527
65°	421	413	403	408	418	416
75°	234	227	223	199	189	246
85°	55	51	51	49	48	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1038.7	1038.7	1038.7	1038.7	1038.7
2.5°	1042.6	1038.0	1036.7	1035.4	1038.7
5°	1038.7	1035.4	1033.5	1032.8	1036.1
7.5°	1034.1	1030.2	1028.9	1027.6	1030.9
10°	1026.3	1022.4	1021.1	1020.5	1023.7
12.5°	1017.2	1012.6	1012.0	1011.3	1014.6
15°	1005.5	1001.6	1000.9	1000.3	1003.5
17.5°	993.1	989.2	987.9	987.2	991.8
20°	978.1	974.2	973.6	972.9	976.8
22.5°	961.2	957.3	956.0	956.6	960.5
25°	942.3	938.4	937.8	937.8	942.3
27.5°	921.5	917.6	917.6	917.6	922.8
30°	899.3	896.1	894.1	894.8	899.3
32.5°	876.5	871.3	870.0	870.7	875.2
35°	849.8	845.9	844.0	844.0	848.5
37.5°	822.5	818.6	816.0	816.0	820.5
40°	795.1	789.3	786.7	785.4	791.2
42.5°	764.5	760.0	754.1	754.1	759.3
45°	732.0	726.8	721.6	721.6	726.8
47.5°	698.8	693.5	687.7	687.7	692.9
50°	663.6	658.4	651.9	651.9	657.7
52.5°	627.8	621.9	614.8	614.1	620.0
55°	590.0	583.5	575.7	577.0	581.5
57.5°	551.6	543.1	535.3	535.3	542.5
60°	508.0	500.8	492.3	493.6	502.7
62.5°	466.3	457.2	448.7	451.9	459.8
65°	420.7	412.9	403.1	408.3	418.1
67.5°	375.8	367.3	359.5	366.0	370.5
70°	328.2	320.4	314.5	314.5	313.9
72.5°	280.7	273.5	272.2	259.8	252.0
75°	233.8	227.3	223.4	199.3	188.9
77.5°	184.9	183.0	170.6	145.2	142.0
80°	138.1	139.4	117.2	117.9	120.5
82.5°	95.1	93.1	87.9	84.0	82.7
85°	54.7	51.4	51.4	48.8	47.5
87.5°	18.2	20.2	20.2	20.2	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)