

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: P238919

Luminaire Tested: **24ENA-LD2-30-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238919
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-L840-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3100.1 lumens
Efficiency: N/A
Efficacy: 126.0 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

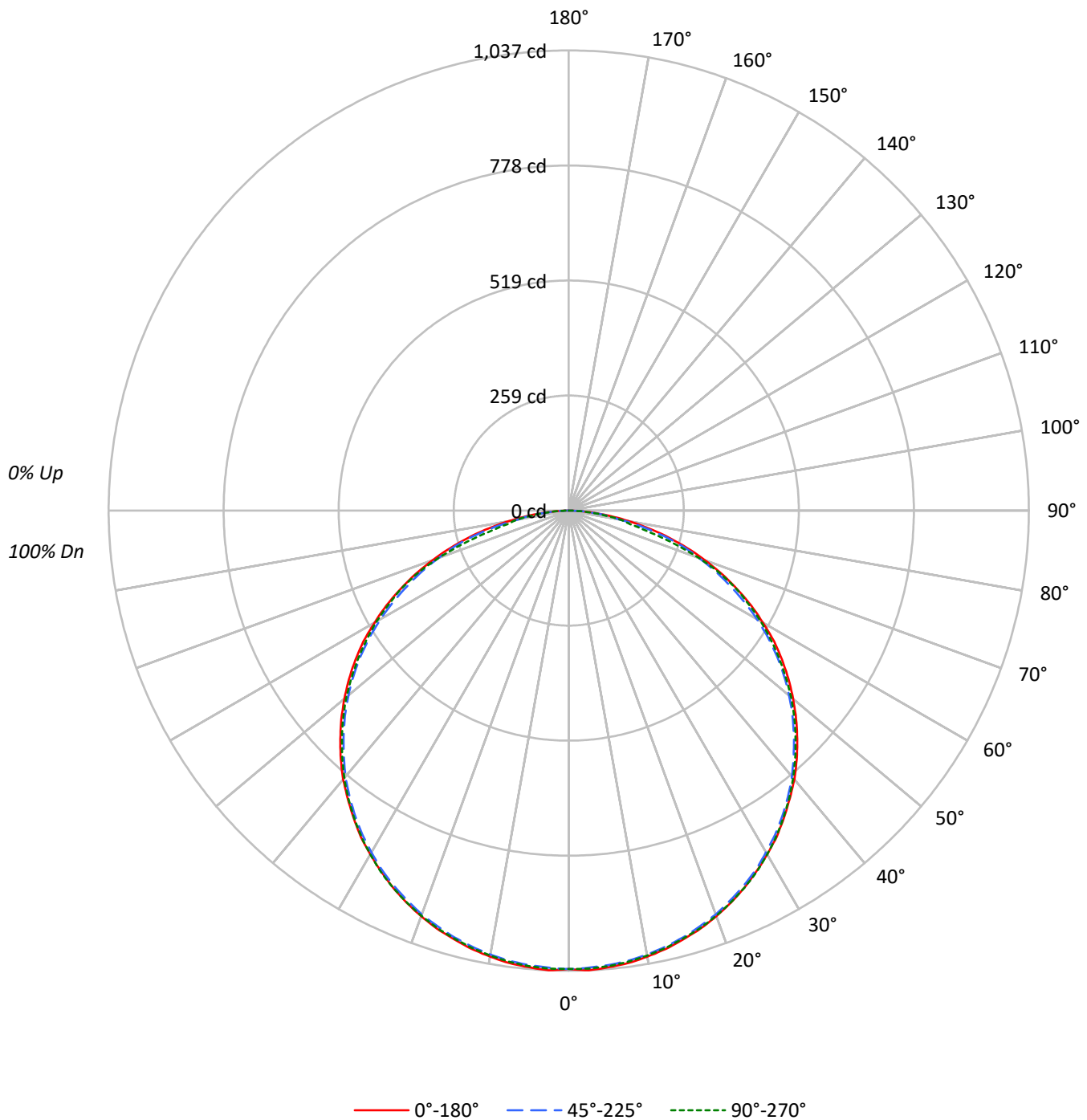
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	90	88			90
2	98	90	83	77	96	88	82	76		84	79	74			81	77	73			78
3	90	79	70	64	87	77	69	63		74	67	62			71	66	61			69
4	82	70	61	54	79	68	60	53		66	58	53			63	57	52			61
5	75	62	53	46	73	61	52	46		59	51	45			57	50	45			55
6	69	56	47	40	67	55	46	40		53	45	40			51	44	39			50
7	64	50	42	35	62	50	41	35		48	40	35			47	40	35			45
8	60	46	37	31	58	45	37	31		44	36	31			43	36	31			41
9	56	42	34	28	54	42	34	28		40	33	28			39	33	28			38
10	52	39	31	26	51	38	31	25		37	30	25			36	30	25			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1741	1741	1741
5°	1747	1739	1743
10°	1746	1738	1742
15°	1744	1737	1741
20°	1744	1736	1742
25°	1742	1734	1742
30°	1740	1730	1740
35°	1739	1727	1736
40°	1739	1721	1731
45°	1735	1710	1722
50°	1730	1699	1715
55°	1724	1682	1699
60°	1702	1650	1685
65°	1668	1599	1658
70°	1608	1541	1538
75°	1513	1446	1222
80°	1332	1131	1162
85°	1052	990	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.2
10°-20°	281.4	9.1
20°-30°	430.7	13.9
30°-40°	526.4	17.0
40°-50°	556.2	17.9
50°-60°	515.4	16.6
60°-70°	403.8	13.0
70°-80°	228.3	7.4
80°-90°	60.1	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°	809.9	26.1
0°-40°	1336.3	43.1
0°-60°	2408.0	77.7
0°-90°	3100.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3100.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1033	1030	1028	1027	1031	98
15°	1000	996	996	995	998	283
25°	937	933	933	933	937	432
35°	845	841	840	840	844	529
45°	728	723	718	718	723	562
55°	587	580	573	574	578	524
65°	418	411	401	406	416	414
75°	232	226	222	198	188	245
85°	54	51	51	49	47	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1033.1	1033.1	1033.1	1033.1	1033.1
2.5°	1037.0	1032.5	1031.2	1029.9	1033.1
5°	1033.1	1029.9	1028.0	1027.3	1030.6
7.5°	1028.6	1024.7	1023.4	1022.1	1025.4
10°	1020.8	1016.9	1015.7	1015.0	1018.2
12.5°	1011.8	1007.2	1006.6	1005.9	1009.2
15°	1000.1	996.2	995.6	994.9	998.2
17.5°	987.8	983.9	982.6	982.0	986.5
20°	972.9	969.0	968.4	967.7	971.6
22.5°	956.1	952.2	950.9	951.5	955.4
25°	937.3	933.4	932.7	932.7	937.3
27.5°	916.5	912.7	912.7	912.7	917.8
30°	894.5	891.3	889.3	890.0	894.5
32.5°	871.9	866.7	865.4	866.0	870.6
35°	845.3	841.4	839.5	839.5	844.0
37.5°	818.1	814.2	811.6	811.6	816.2
40°	790.9	785.1	782.5	781.2	787.0
42.5°	760.4	755.9	750.1	750.1	755.3
45°	728.1	722.9	717.7	717.7	722.9
47.5°	695.0	689.8	684.0	684.0	689.2
50°	660.0	654.9	648.4	648.4	654.2
52.5°	624.4	618.6	611.5	610.8	616.6
55°	586.9	580.4	572.6	573.9	578.4
57.5°	548.6	540.2	532.4	532.4	539.6
60°	505.2	498.1	489.7	491.0	500.1
62.5°	463.8	454.7	446.3	449.5	457.3
65°	418.4	410.7	401.0	406.1	415.8
67.5°	373.7	365.3	357.6	364.0	368.6
70°	326.5	318.7	312.9	312.9	312.2
72.5°	279.2	272.1	270.8	258.4	250.7
75°	232.5	226.1	222.2	198.2	187.8
77.5°	184.0	182.0	169.7	144.4	141.2
80°	137.3	138.6	116.6	117.2	119.8
82.5°	94.6	92.6	87.4	83.6	82.3
85°	54.4	51.2	51.2	48.6	47.3
87.5°	18.1	20.1	20.1	20.1	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)