

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: P238759

Luminaire Tested: **14EN-LD2-28-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-28-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2869.2 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

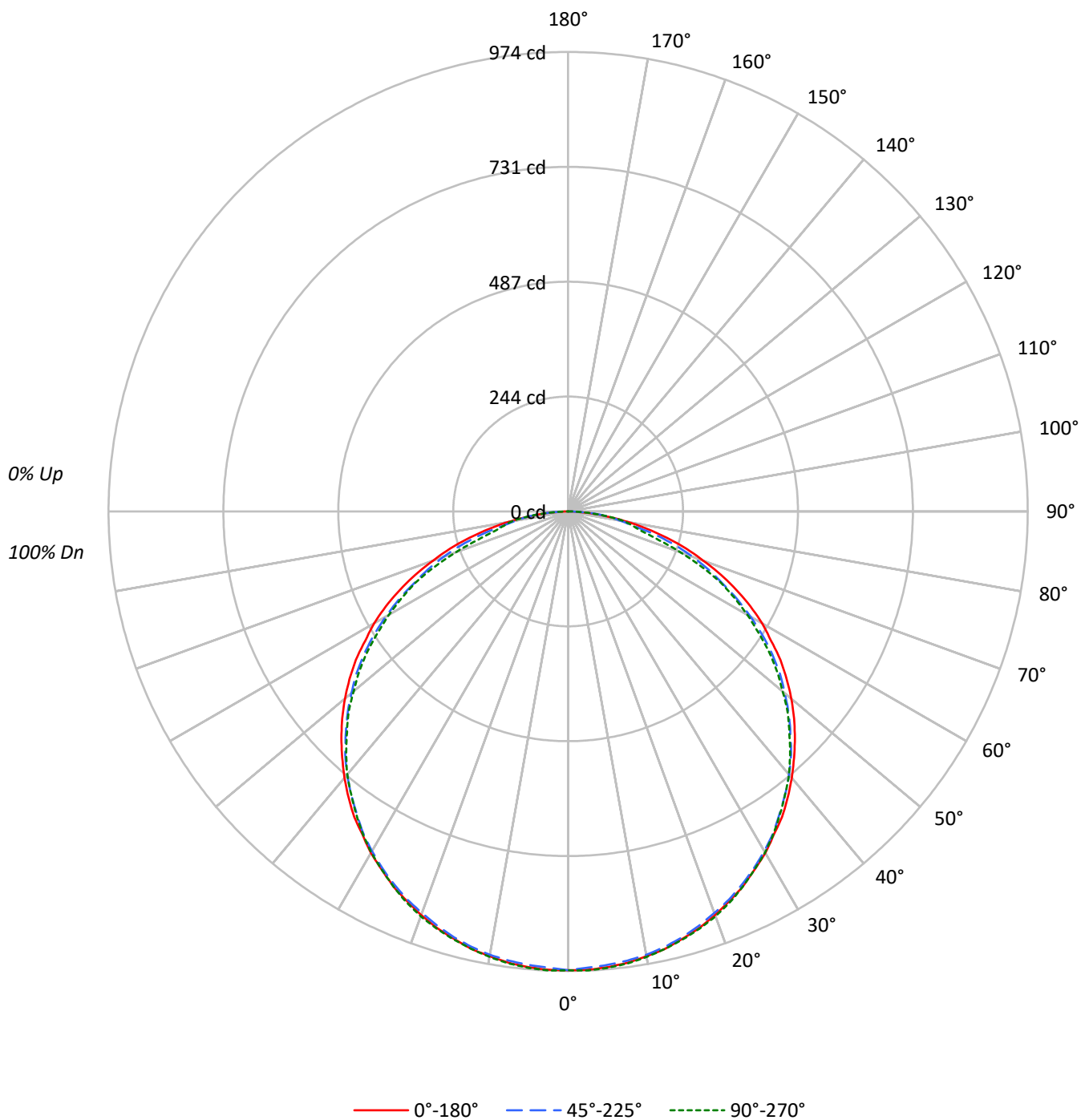
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2730	2730	2730
5°	2732	2719	2737
10°	2729	2721	2734
15°	2725	2717	2730
20°	2720	2706	2729
25°	2717	2703	2717
30°	2710	2695	2705
35°	2709	2678	2683
40°	2703	2669	2669
45°	2699	2645	2632
50°	2697	2618	2591
55°	2689	2584	2547
60°	2666	2505	2462
65°	2611	2399	2369
70°	2503	2304	2080
75°	2353	2073	1745
80°	2084	1790	1963
85°	1614	1856	1759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.2
10°-20°	264.5	9.2
20°-30°	403.1	14.0
30°-40°	490.9	17.1
40°-50°	516.1	18.0
50°-60°	473.8	16.5
60°-70°	364.0	12.7
70°-80°	203.1	7.1
80°-90°	61.7	2.1
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°	759.6	26.5
0°-40°	1250.5	43.6
0°-60°	2240.4	78.1
0°-90°	2869.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2869.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	969	969	965	969	971	92
15°	938	938	934	938	939	265
25°	877	874	872	875	877	404
35°	790	787	781	783	783	494
45°	680	675	666	663	663	524
55°	549	545	528	519	520	490
65°	393	382	361	356	356	388
75°	217	206	191	165	161	229
85°	50	52	58	56	55	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.4	972.4	972.4	972.4	972.4
2.5°	972.4	972.4	967.9	972.4	973.9
5°	969.4	969.4	964.8	969.4	970.9
7.5°	964.8	964.8	960.3	963.3	966.3
10°	957.2	957.2	954.2	957.2	958.8
12.5°	949.6	948.1	945.1	948.1	949.6
15°	937.5	937.5	934.5	937.5	939.0
17.5°	925.4	923.9	920.8	925.4	926.9
20°	910.2	908.7	905.7	910.2	913.2
22.5°	893.5	892.0	890.5	895.0	896.6
25°	876.8	873.8	872.3	875.3	876.8
27.5°	855.6	854.1	852.6	854.1	855.6
30°	835.9	832.8	831.3	831.3	834.4
32.5°	811.6	810.1	808.6	810.1	810.1
35°	790.4	787.3	781.3	782.8	782.8
37.5°	764.6	760.0	755.5	755.5	755.5
40°	737.3	734.2	728.2	726.6	728.2
42.5°	708.4	705.4	699.3	694.8	696.3
45°	679.6	675.1	666.0	662.9	662.9
47.5°	649.3	644.7	634.1	629.6	631.1
50°	617.4	611.4	599.2	593.2	593.2
52.5°	584.0	578.0	565.8	558.3	558.3
55°	549.2	544.6	527.9	518.8	520.3
57.5°	509.7	505.2	488.5	477.9	477.9
60°	474.8	465.7	446.0	438.4	438.4
62.5°	435.4	424.8	405.0	395.9	397.5
65°	392.9	382.3	361.0	356.5	356.5
67.5°	350.4	341.3	321.6	314.0	306.4
70°	304.9	295.8	280.6	262.4	253.3
72.5°	262.4	251.8	238.2	210.9	201.8
75°	216.9	206.3	191.1	165.4	160.8
77.5°	172.9	163.8	142.6	136.5	139.6
80°	128.9	125.9	110.7	116.8	121.4
82.5°	86.5	85.0	88.0	91.0	91.0
85°	50.1	51.6	57.6	56.1	54.6
87.5°	21.2	25.8	24.3	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)