

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: P238696

Luminaire Tested: **14EN-LD2-28-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238696
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-L950-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2685.3 lumens
Efficiency: N/A
Efficacy: 113.8 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

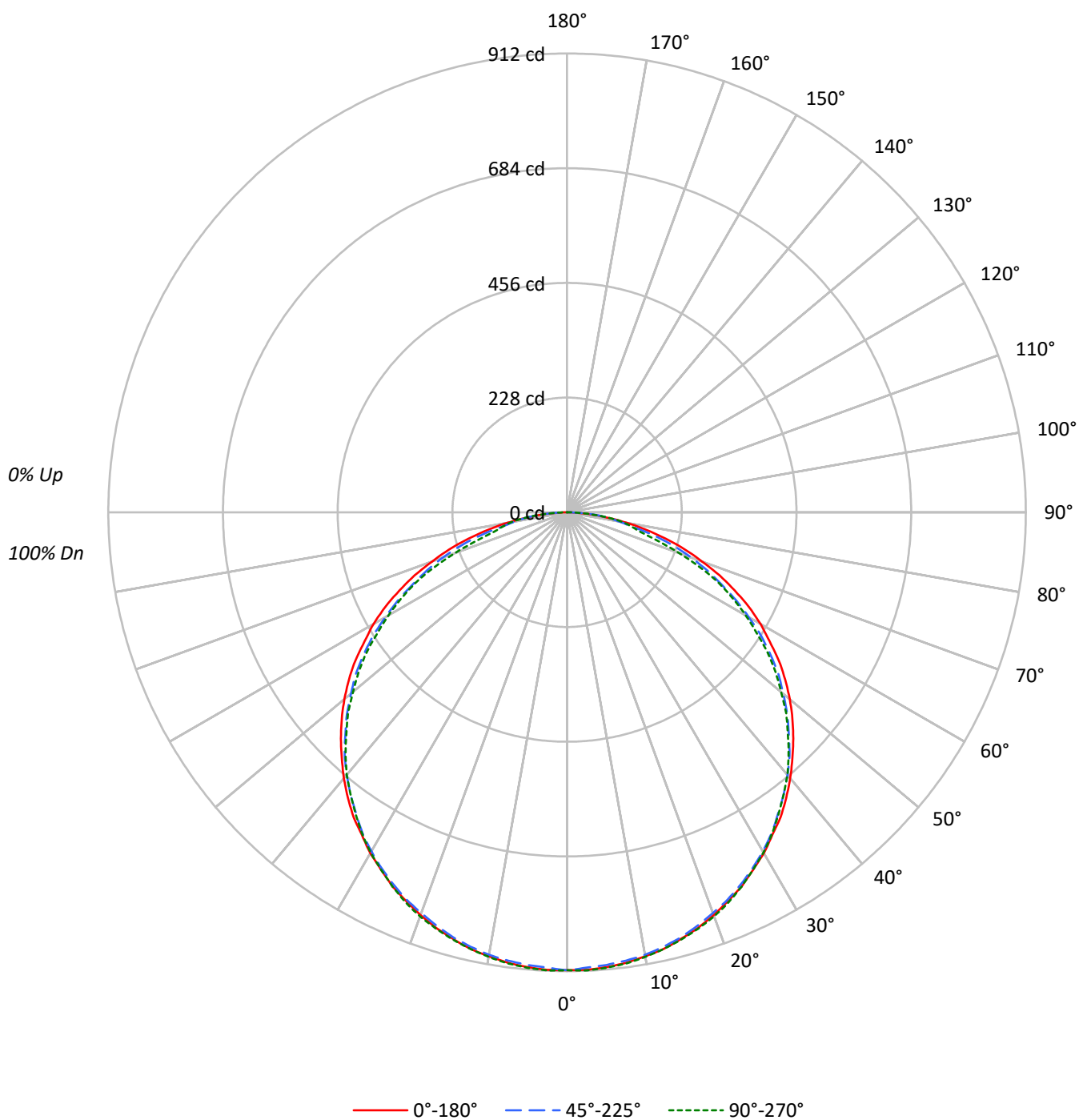
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2556	2556	2556
5°	2557	2545	2561
10°	2554	2546	2558
15°	2551	2542	2555
20°	2545	2533	2554
25°	2542	2529	2542
30°	2537	2523	2532
35°	2536	2506	2511
40°	2529	2498	2498
45°	2526	2475	2464
50°	2524	2450	2425
55°	2516	2419	2384
60°	2496	2344	2304
65°	2443	2245	2217
70°	2343	2157	1947
75°	2202	1941	1633
80°	1952	1675	1837
85°	1511	1740	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.2
10°-20°	247.5	9.2
20°-30°	377.3	14.0
30°-40°	459.4	17.1
40°-50°	483.0	18.0
50°-60°	443.4	16.5
60°-70°	340.7	12.7
70°-80°	190.1	7.1
80°-90°	57.7	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°	710.9	26.5
0°-40°	1170.3	43.6
0°-60°	2096.8	78.1
0°-90°	2685.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	907	907	903	907	909	86
15°	877	877	875	877	879	248
25°	821	818	816	819	821	378
35°	740	737	731	733	733	462
45°	636	632	623	620	620	491
55°	514	510	494	486	487	458
65°	368	358	338	334	334	363
75°	203	193	179	155	150	215
85°	47	48	54	52	51	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.1	910.1	910.1	910.1	910.1
2.5°	910.1	910.1	905.8	910.1	911.5
5°	907.2	907.2	903.0	907.2	908.6
7.5°	903.0	903.0	898.7	901.5	904.4
10°	895.9	895.9	893.0	895.9	897.3
12.5°	888.8	887.3	884.5	887.3	888.8
15°	877.4	877.4	874.6	877.4	878.8
17.5°	866.0	864.6	861.8	866.0	867.5
20°	851.8	850.4	847.6	851.8	854.7
22.5°	836.2	834.8	833.4	837.6	839.1
25°	820.6	817.8	816.4	819.2	820.6
27.5°	800.7	799.3	797.9	799.3	800.7
30°	782.3	779.4	778.0	778.0	780.9
32.5°	759.6	758.1	756.7	758.1	758.1
35°	739.7	736.8	731.2	732.6	732.6
37.5°	715.6	711.3	707.0	707.0	707.0
40°	690.0	687.2	681.5	680.1	681.5
42.5°	663.0	660.2	654.5	650.2	651.7
45°	636.0	631.8	623.3	620.4	620.4
47.5°	607.7	603.4	593.5	589.2	590.6
50°	577.8	572.2	560.8	555.1	555.1
52.5°	546.6	540.9	529.6	522.5	522.5
55°	513.9	509.7	494.1	485.6	487.0
57.5°	477.0	472.8	457.2	447.2	447.2
60°	444.4	435.9	417.4	410.3	410.3
62.5°	407.5	397.5	379.1	370.6	372.0
65°	367.7	357.8	337.9	333.6	333.6
67.5°	328.0	319.4	301.0	293.9	286.8
70°	285.4	276.8	262.7	245.6	237.1
72.5°	245.6	235.7	222.9	197.3	188.8
75°	203.0	193.1	178.9	154.8	150.5
77.5°	161.9	153.3	133.5	127.8	130.6
80°	120.7	117.8	103.6	109.3	113.6
82.5°	80.9	79.5	82.3	85.2	85.2
85°	46.9	48.3	54.0	52.5	51.1
87.5°	19.9	24.1	22.7	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)