

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: P238961

Luminaire Tested: **24EN-LD2-34-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238961
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-LD2-34-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3025.7 lumens
Efficiency: N/A
Efficacy: 105.4 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

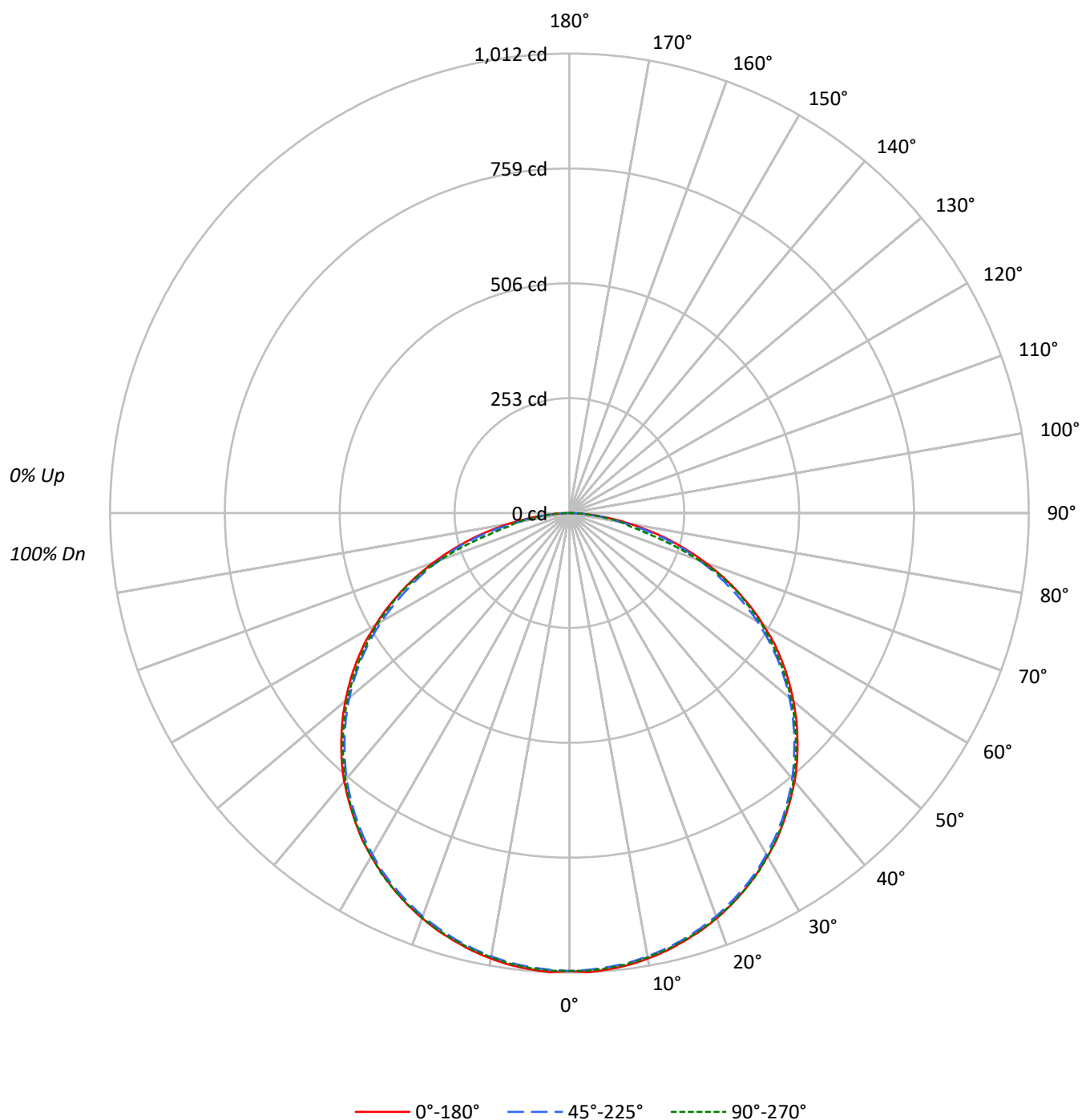
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1544	1544	1544
5°	1550	1543	1546
10°	1549	1542	1546
15°	1548	1541	1545
20°	1548	1540	1546
25°	1546	1539	1546
30°	1544	1535	1544
35°	1543	1532	1540
40°	1543	1527	1536
45°	1539	1517	1528
50°	1535	1508	1521
55°	1530	1492	1508
60°	1510	1464	1495
65°	1480	1418	1471
70°	1427	1368	1364
75°	1343	1283	1085
80°	1182	1004	1032
85°	933	877	812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	3.2
10°-20°	274.7	9.1
20°-30°	420.3	13.9
30°-40°	513.7	17.0
40°-50°	542.9	17.9
50°-60°	503.0	16.6
60°-70°	394.1	13.0
70°-80°	222.8	7.4
80°-90°	58.7	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°	790.5	26.1
0°-40°	1304.3	43.1
0°-60°	2350.2	77.7
0°-90°	3025.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3025.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1008	1005	1003	1003	1006	96
15°	976	972	972	971	974	276
25°	915	911	910	910	915	422
35°	825	821	819	819	824	517
45°	711	706	700	700	706	548
55°	573	566	559	560	565	512
65°	408	401	391	396	406	404
75°	227	221	217	194	183	239
85°	53	50	50	47	46	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1008.4	1008.4	1008.4	1008.4	1008.4
2.5°	1012.1	1007.7	1006.5	1005.2	1008.4
5°	1008.4	1005.2	1003.3	1002.7	1005.8
7.5°	1003.9	1000.1	998.9	997.6	1000.8
10°	996.3	992.5	991.3	990.6	993.8
12.5°	987.5	983.1	982.4	981.8	985.0
15°	976.1	972.3	971.7	971.1	974.2
17.5°	964.1	960.3	959.0	958.4	962.8
20°	949.6	945.8	945.1	944.5	948.3
22.5°	933.1	929.3	928.1	928.7	932.5
25°	914.8	911.0	910.4	910.4	914.8
27.5°	894.6	890.8	890.8	890.8	895.8
30°	873.1	869.9	868.0	868.6	873.1
32.5°	850.9	845.9	844.6	845.2	849.7
35°	825.0	821.2	819.3	819.3	823.7
37.5°	798.5	794.7	792.1	792.1	796.6
40°	771.9	766.2	763.7	762.4	768.1
42.5°	742.2	737.8	732.1	732.1	737.1
45°	710.6	705.5	700.5	700.5	705.5
47.5°	678.3	673.3	667.6	667.6	672.7
50°	644.2	639.1	632.8	632.8	638.5
52.5°	609.4	603.7	596.8	596.2	601.8
55°	572.8	566.4	558.9	560.1	564.6
57.5°	535.5	527.3	519.7	519.7	526.6
60°	493.1	486.2	477.9	479.2	488.1
62.5°	452.7	443.8	435.6	438.7	446.3
65°	408.4	400.8	391.3	396.4	405.9
67.5°	364.8	356.6	349.0	355.3	359.7
70°	318.6	311.0	305.4	305.4	304.7
72.5°	272.5	265.5	264.3	252.2	244.7
75°	227.0	220.6	216.8	193.5	183.3
77.5°	179.5	177.6	165.6	141.0	137.8
80°	134.0	135.3	113.8	114.4	117.0
82.5°	92.3	90.4	85.3	81.6	80.3
85°	53.1	49.9	49.9	47.4	46.2
87.5°	17.7	19.6	19.6	19.6	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)