

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: P238768

Luminaire Tested: **14EN-LD2-38-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238768
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-LD2-38-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4260.2 lumens
Efficiency: N/A
Efficacy: 129.9 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

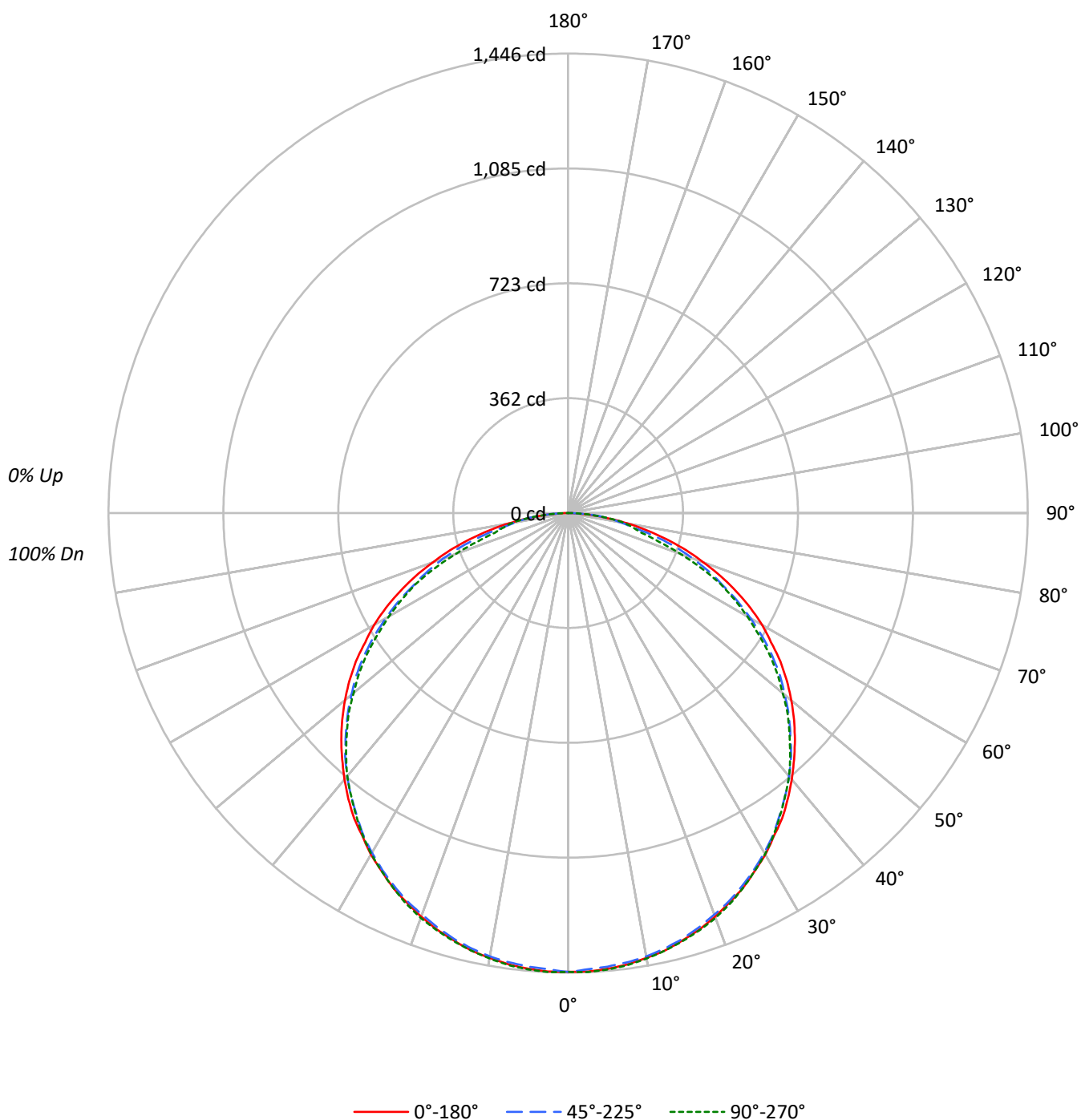
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4054	4054	4054
5°	4057	4038	4063
10°	4053	4040	4059
15°	4047	4034	4053
20°	4038	4018	4052
25°	4034	4013	4034
30°	4024	4002	4017
35°	4023	3976	3984
40°	4013	3963	3963
45°	4007	3927	3909
50°	4005	3887	3847
55°	3992	3837	3782
60°	3959	3719	3655
65°	3876	3562	3517
70°	3717	3421	3089
75°	3495	3079	2591
80°	3097	2658	2914
85°	2394	2758	2613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.2
10°-20°	392.7	9.2
20°-30°	598.5	14.0
30°-40°	728.8	17.1
40°-50°	766.3	18.0
50°-60°	703.4	16.5
60°-70°	540.4	12.7
70°-80°	301.6	7.1
80°-90°	91.6	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°	1127.9	26.5
0°-40°	1856.7	43.6
0°-60°	3326.5	78.1
0°-90°	4260.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4260.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1439	1439	1432	1439	1442	137
15°	1392	1392	1388	1392	1394	393
25°	1302	1297	1295	1300	1302	600
35°	1174	1169	1160	1162	1162	733
45°	1009	1002	989	984	984	779
55°	815	809	784	770	773	727
65°	583	568	536	529	529	576
75°	322	306	284	246	239	340
85°	74	77	86	83	81	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.8	1443.8	1443.8	1443.8	1443.8
2.5°	1443.8	1443.8	1437.0	1443.8	1446.0
5°	1439.3	1439.3	1432.5	1439.3	1441.5
7.5°	1432.5	1432.5	1425.8	1430.3	1434.8
10°	1421.3	1421.3	1416.8	1421.3	1423.5
12.5°	1410.0	1407.8	1403.2	1407.8	1410.0
15°	1392.0	1392.0	1387.5	1392.0	1394.2
17.5°	1374.0	1371.7	1367.2	1374.0	1376.2
20°	1351.4	1349.2	1344.7	1351.4	1355.9
22.5°	1326.7	1324.4	1322.2	1328.9	1331.2
25°	1301.9	1297.4	1295.1	1299.6	1301.9
27.5°	1270.4	1268.1	1265.9	1268.1	1270.4
30°	1241.1	1236.6	1234.3	1234.3	1238.8
32.5°	1205.0	1202.8	1200.5	1202.8	1202.8
35°	1173.5	1169.0	1160.0	1162.2	1162.2
37.5°	1135.2	1128.5	1121.7	1121.7	1121.7
40°	1094.7	1090.2	1081.2	1078.9	1081.2
42.5°	1051.9	1047.4	1038.4	1031.6	1033.9
45°	1009.1	1002.3	988.8	984.3	984.3
47.5°	964.0	957.3	941.5	934.7	937.0
50°	916.7	907.7	889.7	880.7	880.7
52.5°	867.2	858.2	840.1	828.9	828.9
55°	815.4	808.6	783.8	770.3	772.6
57.5°	756.8	750.1	725.3	709.5	709.5
60°	705.0	691.5	662.2	650.9	650.9
62.5°	646.4	630.7	601.4	587.9	590.1
65°	583.4	567.6	536.1	529.3	529.3
67.5°	520.3	506.8	477.5	466.2	455.0
70°	452.7	439.2	416.7	389.7	376.2
72.5°	389.7	373.9	353.6	313.1	299.6
75°	322.1	306.3	283.8	245.5	238.8
77.5°	256.8	243.3	211.7	202.7	207.2
80°	191.5	186.9	164.4	173.4	180.2
82.5°	128.4	126.1	130.6	135.1	135.1
85°	74.3	76.6	85.6	83.3	81.1
87.5°	31.5	38.3	36.0	36.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)