

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: P184027

Luminaire Tested: **12EN-LD2-08-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34514)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-08-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 807.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

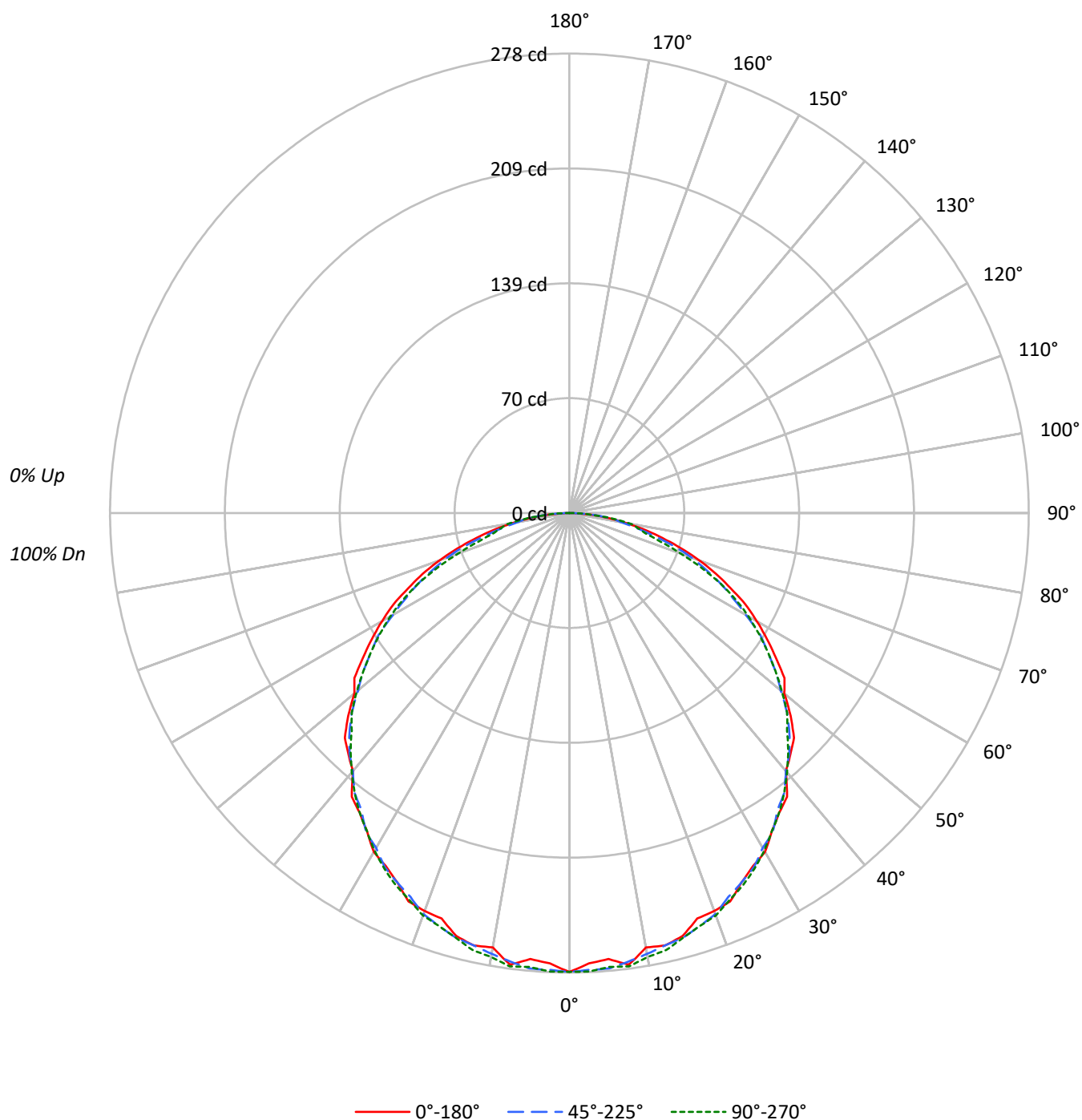
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	52	46		57	50	45		43
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		29
9	56	42	34	29	55	42	34	28	41	33	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1494	1494	1494
5°	1463	1494	1489
10°	1459	1480	1490
15°	1476	1482	1482
20°	1467	1479	1484
25°	1464	1464	1476
30°	1472	1454	1465
35°	1454	1441	1454
40°	1432	1432	1439
45°	1463	1433	1418
50°	1422	1397	1406
55°	1430	1375	1375
60°	1410	1327	1348
65°	1372	1285	1285
70°	1314	1237	1130
75°	1210	1090	990
80°	1082	992	1172
85°	902	1019	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	3.3
10°-20°	74.9	9.3
20°-30°	114.1	14.1
30°-40°	138.2	17.1
40°-50°	144.9	18.0
50°-60°	132.6	16.4
60°-70°	101.3	12.6
70°-80°	57.0	7.1
80°-90°	17.8	2.2
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°	215.3	26.7
0°-40°	353.4	43.8
0°-60°	631.0	78.2
0°-90°	807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	278	278	278	278	278	
5°	271	276	277	278	276	26
15°	265	265	266	266	266	74
25°	246	248	246	248	248	114
35°	221	220	219	221	221	139
45°	192	189	188	186	186	147
55°	152	150	146	146	146	136
65°	108	105	101	100	101	107
75°	58	56	52	48	48	62
85°	15	15	16	16	16	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	277.6	277.6	277.6	277.6	277.6
2.5°	272.7	276.6	276.6	278.5	277.6
5°	270.8	275.6	276.6	278.5	275.6
7.5°	275.6	274.7	273.7	275.6	276.6
10°	266.9	270.8	270.8	275.6	272.7
12.5°	267.9	268.8	267.9	267.9	270.8
15°	264.9	264.9	265.9	265.9	265.9
17.5°	257.2	261.1	262.0	263.0	262.0
20°	256.2	257.2	258.2	259.1	259.1
22.5°	254.3	252.3	251.4	255.2	253.3
25°	246.5	247.5	246.5	248.5	248.5
27.5°	240.7	240.7	241.7	240.7	242.6
30°	236.8	235.8	233.9	235.8	235.8
32.5°	228.1	229.0	229.0	228.1	228.1
35°	221.3	220.3	219.3	221.3	221.3
37.5°	216.4	211.6	213.5	212.5	213.5
40°	203.8	206.7	203.8	203.8	204.8
42.5°	198.0	197.0	197.0	196.0	196.0
45°	192.2	189.2	188.3	186.3	186.3
47.5°	181.5	181.5	178.6	176.6	178.6
50°	169.8	170.8	166.9	166.0	167.9
52.5°	164.0	161.1	157.2	158.2	157.2
55°	152.4	150.4	146.5	146.5	146.5
57.5°	141.7	140.7	136.8	135.9	135.9
60°	131.0	129.1	123.3	124.2	125.2
62.5°	120.3	117.4	111.6	113.5	113.5
65°	107.7	104.8	100.9	100.0	100.9
67.5°	96.1	92.2	89.3	88.3	86.4
70°	83.5	81.5	78.6	72.8	71.8
72.5°	70.8	67.9	66.0	59.2	58.2
75°	58.2	56.3	52.4	48.5	47.6
77.5°	46.6	45.6	40.8	40.8	42.7
80°	34.9	34.0	32.0	35.9	37.8
82.5°	24.3	23.3	26.2	27.2	27.2
85°	14.6	14.6	16.5	15.5	15.5
87.5°	5.8	6.8	6.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)