

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: P183162

Luminaire Tested: **12EN-LD2-39-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34480)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-39-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4412.3 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.92' x L: 1.92' x H: 0')
CIE Type: Direct

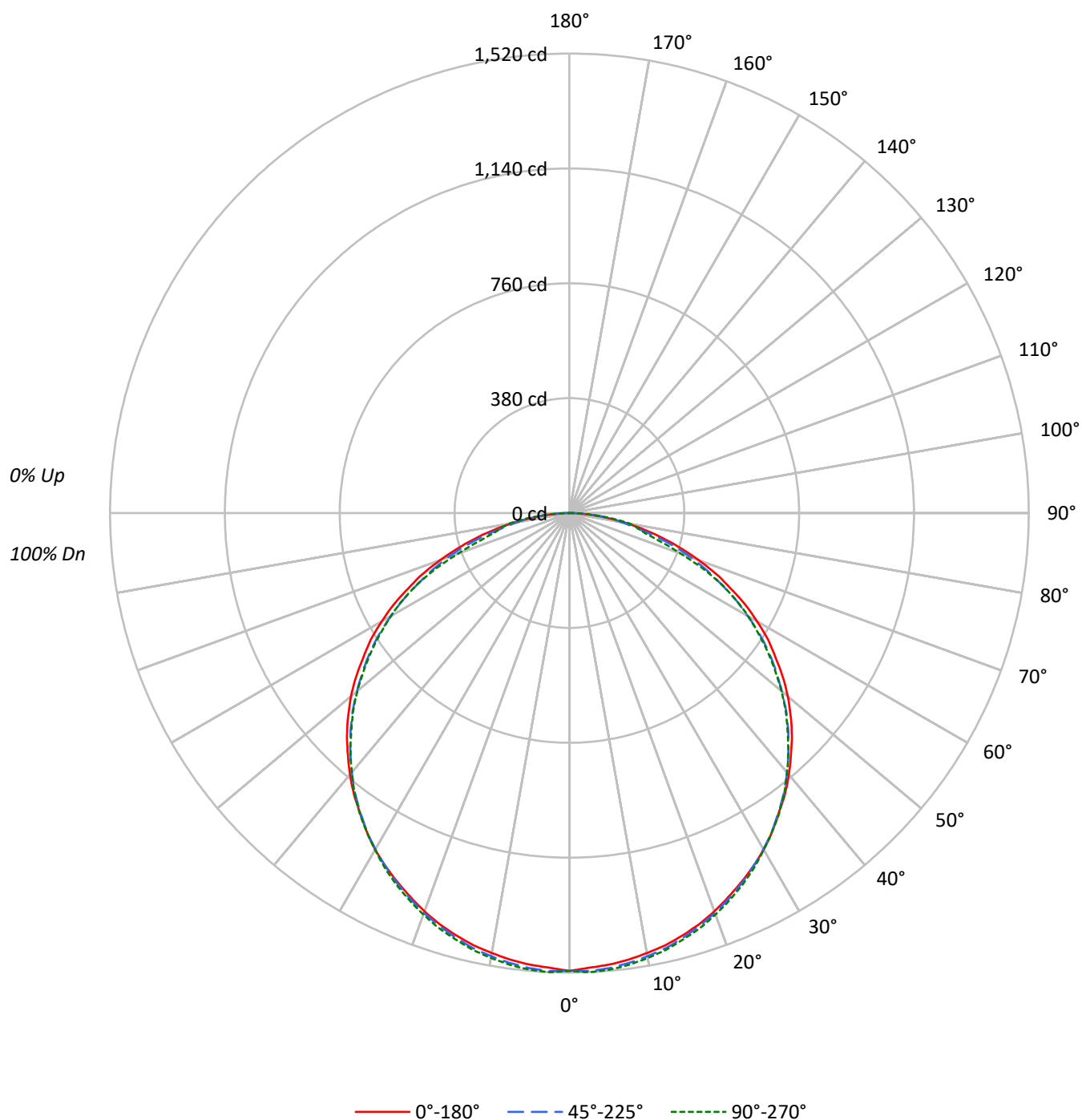
Input Watts (W): 35.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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	69	60	54		66	59	53		64	57	52		61	56	52
5	75	62	53	46	73	61	53	46		59	52	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	29	55	42	34	28		41	33	28		40	33	28		39	32	28
10	52	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9279	9279	9279
5°	9224	9292	9326
10°	9193	9261	9296
15°	9174	9220	9256
20°	9141	9178	9214
25°	9105	9130	9167
30°	9098	9085	9098
35°	9040	9026	9053
40°	9033	8959	8959
45°	9019	8876	8844
50°	8992	8746	8728
55°	8895	8620	8561
60°	8782	8353	8376
65°	8521	7986	8014
70°	8152	7658	6997
75°	7546	6891	6150
80°	6760	6111	7151
85°	5441	6087	6087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.2
10°-20°	410.2	9.3
20°-30°	622.6	14.1
30°-40°	756.0	17.1
40°-50°	792.5	18.0
50°-60°	724.9	16.4
60°-70°	555.1	12.6
70°-80°	311.6	7.1
80°-90°	96.0	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°	1176.2	26.7
0°-40°	1932.2	43.8
0°-60°	3449.6	78.2
0°-90°	4412.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4412.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1500	1504	1511	1514	1516	142
15°	1446	1448	1454	1457	1459	408
25°	1347	1347	1351	1352	1356	621
35°	1209	1209	1207	1207	1210	758
45°	1041	1036	1024	1021	1021	803
55°	833	827	807	798	802	745
65°	588	575	551	555	553	583
75°	319	308	291	264	260	338
85°	77	79	87	87	87	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.5	1514.5	1514.5	1514.5	1514.5
2.5°	1505.3	1509.0	1516.4	1520.1	1520.1
5°	1499.8	1503.5	1510.9	1514.5	1516.4
7.5°	1490.6	1494.3	1501.6	1507.2	1507.2
10°	1477.7	1481.4	1488.7	1494.3	1494.3
12.5°	1464.8	1466.6	1474.0	1477.7	1479.5
15°	1446.4	1448.2	1453.7	1457.4	1459.3
17.5°	1426.1	1426.1	1431.6	1435.3	1439.0
20°	1402.1	1404.0	1407.7	1411.4	1413.2
22.5°	1374.5	1376.3	1380.0	1383.7	1385.6
25°	1346.9	1346.9	1350.6	1352.4	1356.1
27.5°	1317.4	1317.4	1317.4	1319.2	1322.9
30°	1286.1	1284.2	1284.2	1282.4	1286.1
32.5°	1249.2	1249.2	1247.4	1245.5	1249.2
35°	1208.7	1208.7	1206.8	1206.8	1210.5
37.5°	1171.8	1170.0	1166.3	1162.6	1168.1
40°	1129.5	1127.6	1120.2	1116.6	1120.2
42.5°	1085.2	1081.5	1072.3	1068.7	1072.3
45°	1041.0	1035.5	1024.4	1020.7	1020.7
47.5°	993.1	987.6	972.8	967.3	971.0
50°	943.4	936.0	917.6	913.9	915.7
52.5°	889.9	880.7	862.3	858.6	858.6
55°	832.8	827.3	807.0	797.8	801.5
57.5°	779.4	768.3	746.2	735.2	740.7
60°	716.7	703.8	681.7	676.2	683.6
62.5°	655.9	641.2	619.1	615.4	620.9
65°	587.8	574.9	550.9	554.6	552.8
67.5°	525.1	510.4	490.1	480.9	475.4
70°	455.1	442.2	427.5	401.7	390.6
72.5°	386.9	375.9	361.1	326.1	318.8
75°	318.8	307.7	291.1	263.5	259.8
77.5°	254.3	246.9	222.9	222.9	232.2
80°	191.6	187.9	173.2	193.5	202.7
82.5°	129.0	125.3	140.0	147.4	145.6
85°	77.4	79.2	86.6	86.6	86.6
87.5°	33.2	36.9	38.7	38.7	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)