

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: P183157

Luminaire Tested: **12EN-LD2-35-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183157
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-LD2-35-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: 3951.6 lumens
Efficiency: N/A
Efficacy: 125.8 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

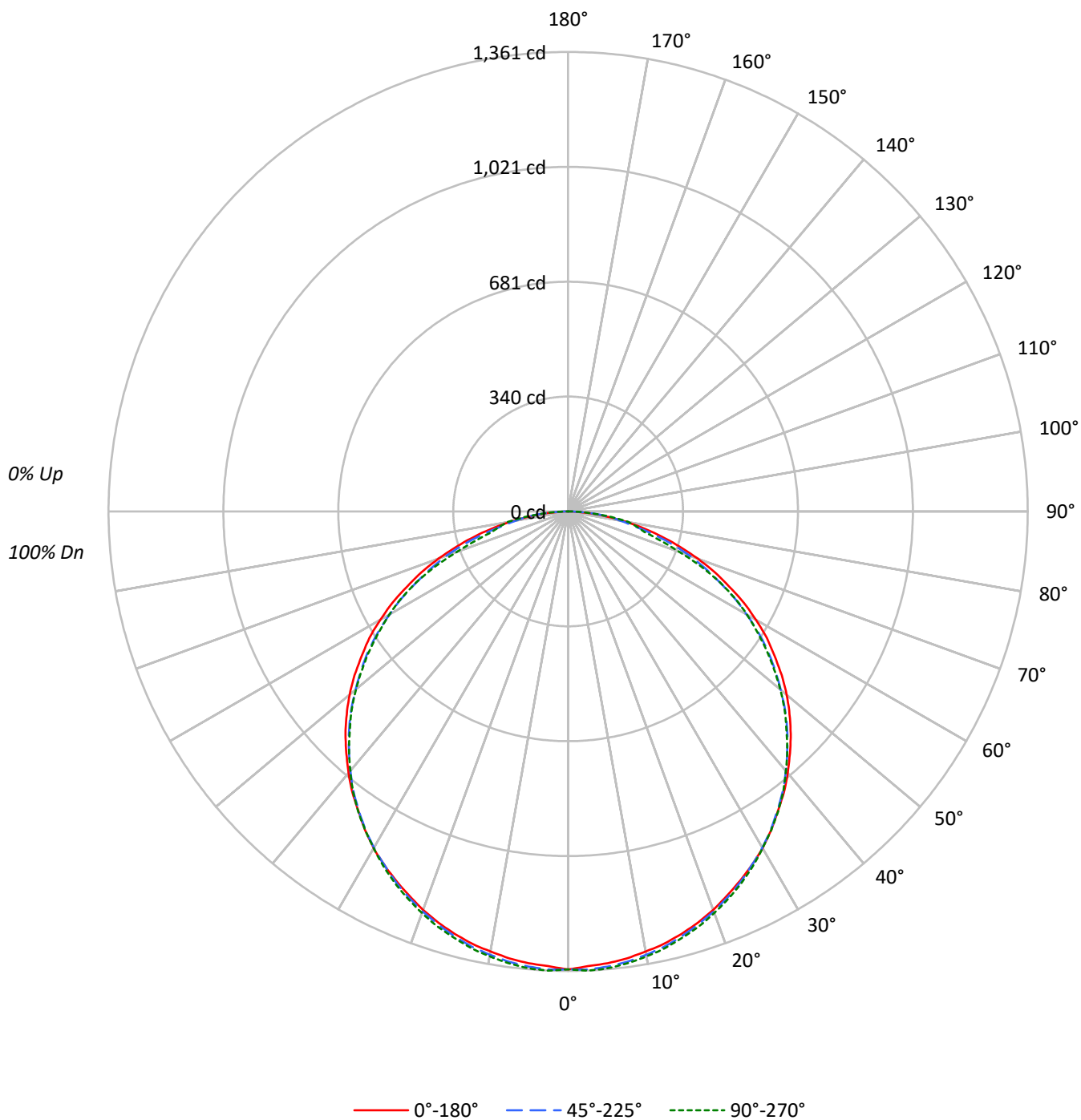
Input Watts (W): 31.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8310	8310	8310
5°	8261	8321	8352
10°	8233	8294	8326
15°	8216	8258	8289
20°	8187	8219	8252
25°	8154	8177	8210
30°	8148	8136	8148
35°	8096	8083	8108
40°	8090	8024	8024
45°	8078	7949	7921
50°	8053	7833	7816
55°	7967	7720	7667
60°	7865	7482	7501
65°	7631	7153	7176
70°	7301	6857	6266
75°	6758	6171	5508
80°	6054	5472	6404
85°	4871	5455	5455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	3.2
10°-20°	367.4	9.3
20°-30°	557.6	14.1
30°-40°	677.1	17.1
40°-50°	709.8	18.0
50°-60°	649.3	16.4
60°-70°	497.1	12.6
70°-80°	279.1	7.1
80°-90°	86.0	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°	1053.4	26.7
0°-40°	1730.4	43.8
0°-60°	3089.5	78.2
0°-90°	3951.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3951.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1343	1346	1353	1356	1358	128
15°	1295	1297	1302	1305	1307	366
25°	1206	1206	1210	1211	1214	556
35°	1082	1082	1081	1081	1084	679
45°	932	927	918	914	914	719
55°	746	741	723	714	718	668
65°	526	515	493	497	495	522
75°	286	276	261	236	233	303
85°	69	71	78	78	78	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.4	1356.4	1356.4	1356.4	1356.4
2.5°	1348.2	1351.5	1358.1	1361.4	1361.4
5°	1343.2	1346.5	1353.1	1356.4	1358.1
7.5°	1335.0	1338.3	1344.9	1349.8	1349.8
10°	1323.4	1326.7	1333.3	1338.3	1338.3
12.5°	1311.9	1313.5	1320.1	1323.4	1325.1
15°	1295.4	1297.0	1302.0	1305.3	1306.9
17.5°	1277.2	1277.2	1282.2	1285.5	1288.8
20°	1255.8	1257.4	1260.7	1264.0	1265.7
22.5°	1231.0	1232.7	1236.0	1239.3	1240.9
25°	1206.3	1206.3	1209.6	1211.2	1214.5
27.5°	1179.8	1179.8	1179.8	1181.5	1184.8
30°	1151.8	1150.1	1150.1	1148.5	1151.8
32.5°	1118.8	1118.8	1117.1	1115.5	1118.8
35°	1082.5	1082.5	1080.8	1080.8	1084.1
37.5°	1049.5	1047.8	1044.5	1041.2	1046.2
40°	1011.5	1009.9	1003.3	1000.0	1003.3
42.5°	971.9	968.6	960.4	957.1	960.4
45°	932.3	927.4	917.5	914.2	914.2
47.5°	889.4	884.5	871.3	866.3	869.6
50°	844.9	838.3	821.8	818.5	820.1
52.5°	797.0	788.8	772.3	769.0	769.0
55°	745.9	740.9	722.8	714.5	717.8
57.5°	698.0	688.1	668.3	658.4	663.4
60°	641.9	630.4	610.6	605.6	612.2
62.5°	587.4	574.2	554.4	551.1	556.1
65°	526.4	514.8	493.4	496.7	495.0
67.5°	470.3	457.1	438.9	430.7	425.7
70°	407.6	396.0	382.8	359.7	349.8
72.5°	346.5	336.6	323.4	292.1	285.5
75°	285.5	275.6	260.7	236.0	232.7
77.5°	227.7	221.1	199.7	199.7	207.9
80°	171.6	168.3	155.1	173.3	181.5
82.5°	115.5	112.2	125.4	132.0	130.4
85°	69.3	71.0	77.6	77.6	77.6
87.5°	29.7	33.0	34.7	34.7	36.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)