

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: P238764

Luminaire Tested: **14EN-LD2-33-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238764
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-LD2-33-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: 3695.2 lumens
Efficiency: N/A
Efficacy: 131.5 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

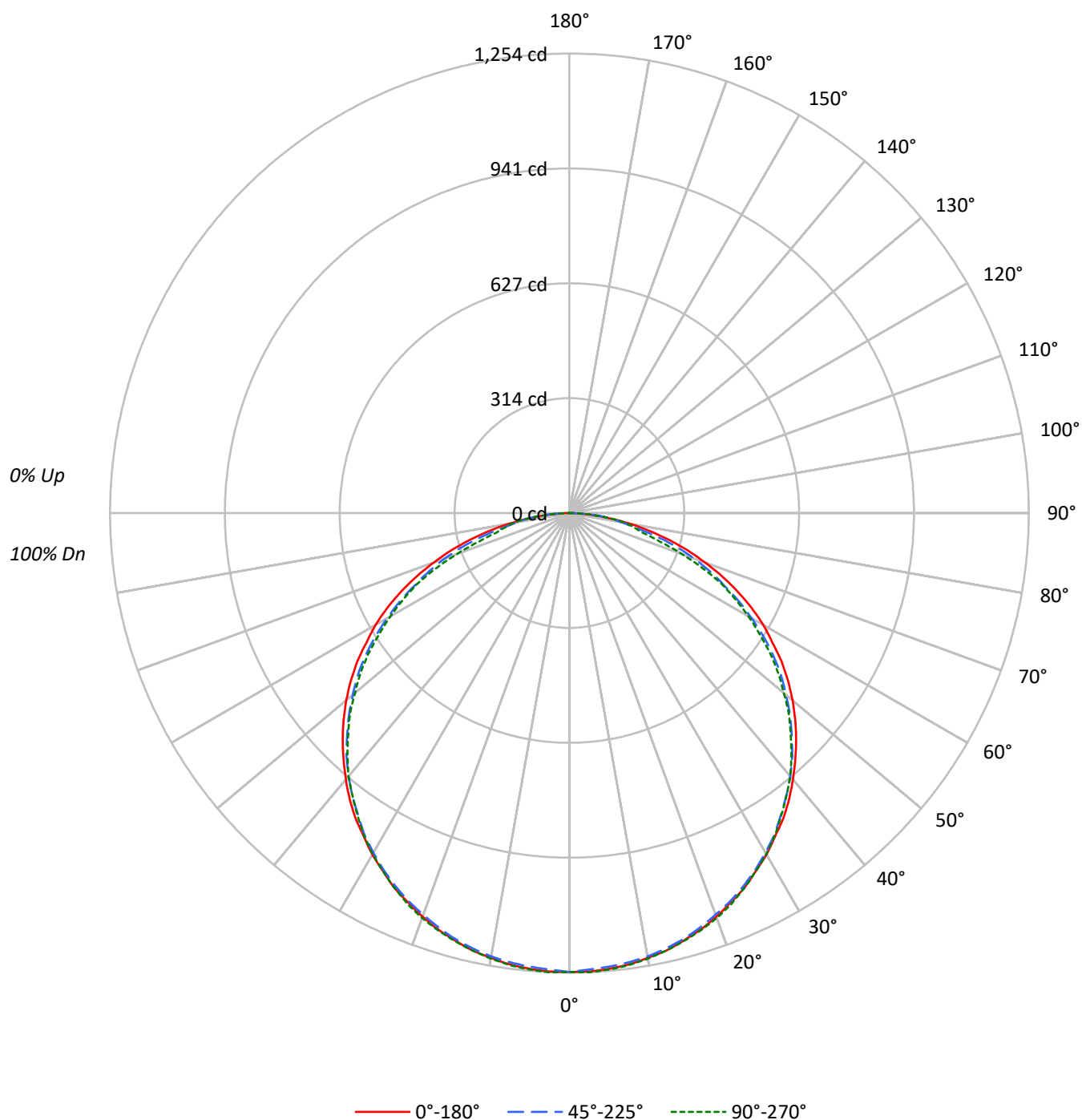
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238764

CATALOG NUMBER: 14EN-LD2-33-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238764

CATALOG NUMBER: 14EN-LD2-33-UNV-L850-CD1-U

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	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83		83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58		58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33		33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26		26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3516	3516	3516
5°	3519	3502	3525
10°	3515	3504	3520
15°	3510	3499	3515
20°	3503	3485	3514
25°	3499	3481	3499
30°	3490	3471	3484
35°	3489	3449	3456
40°	3480	3438	3438
45°	3476	3406	3391
50°	3474	3371	3337
55°	3462	3328	3281
60°	3434	3226	3171
65°	3362	3090	3050
70°	3224	2967	2679
75°	3031	2671	2247
80°	2686	2306	2527
85°	2078	2391	2265



TEST NUMBER: P238764

CATALOG NUMBER: 14EN-LD2-33-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	3.2
10°-20°	340.6	9.2
20°-30°	519.1	14.0
30°-40°	632.2	17.1
40°-50°	664.7	18.0
50°-60°	610.2	16.5
60°-70°	468.8	12.7
70°-80°	261.6	7.1
80°-90°	79.4	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°	978.3	26.5
0°-40°	1610.5	43.6
0°-60°	2885.4	78.1
0°-90°	3695.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1248	1248	1242	1248	1250	119
15°	1207	1207	1204	1207	1209	341
25°	1129	1125	1123	1127	1129	520
35°	1018	1014	1006	1008	1008	636
45°	875	869	858	854	854	675
55°	707	701	680	668	670	631
65°	506	492	465	459	459	500
75°	279	266	246	213	207	295
85°	64	66	74	72	70	78
90°	0	0	0	0	0	



TEST NUMBER: P238764

CATALOG NUMBER: 14EN-LD2-33-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.3	1252.3	1252.3	1252.3	1252.3
2.5°	1252.3	1252.3	1246.5	1252.3	1254.3
5°	1248.4	1248.4	1242.5	1248.4	1250.4
7.5°	1242.5	1242.5	1236.7	1240.6	1244.5
10°	1232.8	1232.8	1228.9	1232.8	1234.7
12.5°	1223.0	1221.1	1217.1	1221.1	1223.0
15°	1207.4	1207.4	1203.5	1207.4	1209.3
17.5°	1191.8	1189.8	1185.9	1191.8	1193.7
20°	1172.2	1170.3	1166.4	1172.2	1176.1
22.5°	1150.7	1148.8	1146.8	1152.7	1154.6
25°	1129.2	1125.3	1123.4	1127.3	1129.2
27.5°	1101.9	1099.9	1098.0	1099.9	1101.9
30°	1076.5	1072.6	1070.6	1070.6	1074.5
32.5°	1045.2	1043.3	1041.3	1043.3	1043.3
35°	1017.9	1014.0	1006.1	1008.1	1008.1
37.5°	984.7	978.8	972.9	972.9	972.9
40°	949.5	945.6	937.8	935.8	937.8
42.5°	912.4	908.5	900.7	894.8	896.7
45°	875.3	869.4	857.7	853.8	853.8
47.5°	836.2	830.3	816.6	810.8	812.7
50°	795.2	787.3	771.7	763.9	763.9
52.5°	752.2	744.4	728.7	719.0	719.0
55°	707.2	701.4	679.9	668.2	670.1
57.5°	656.4	650.6	629.1	615.4	615.4
60°	611.5	599.8	574.4	564.6	564.6
62.5°	560.7	547.0	521.6	509.9	511.9
65°	506.0	492.3	465.0	459.1	459.1
67.5°	451.3	439.6	414.2	404.4	394.6
70°	392.7	381.0	361.4	338.0	326.3
72.5°	338.0	324.3	306.7	271.6	259.8
75°	279.4	265.7	246.2	213.0	207.1
77.5°	222.7	211.0	183.6	175.8	179.7
80°	166.1	162.2	142.6	150.4	156.3
82.5°	111.4	109.4	113.3	117.2	117.2
85°	64.5	66.4	74.2	72.3	70.3
87.5°	27.4	33.2	31.3	31.3	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)