

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: P238774

Luminaire Tested: **14EN-LD2-47-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238774
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-LD2-47-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4728.0 lumens
Efficiency: N/A
Efficacy: 113.9 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

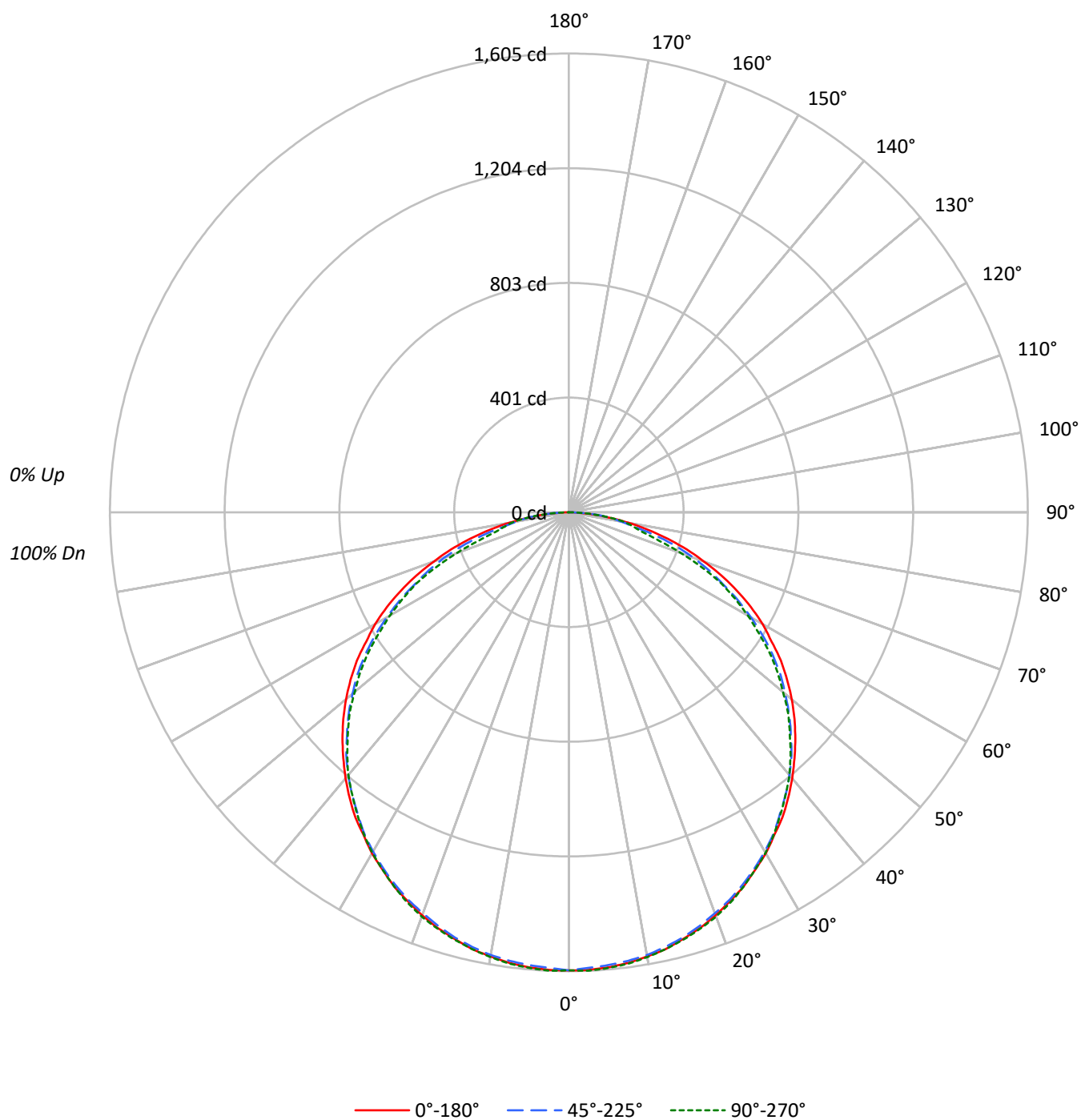
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238774

CATALOG NUMBER: 14EN-LD2-47-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238774

CATALOG NUMBER: 14EN-LD2-47-UNV-L835-CD1-U

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4499	4499	4499
5°	4502	4481	4509
10°	4497	4483	4504
15°	4491	4476	4498
20°	4482	4459	4497
25°	4477	4453	4477
30°	4466	4442	4458
35°	4465	4413	4422
40°	4453	4398	4398
45°	4447	4358	4338
50°	4444	4313	4270
55°	4430	4259	4197
60°	4394	4127	4057
65°	4301	3953	3903
70°	4125	3797	3428
75°	3879	3417	2875
80°	3436	2951	3234
85°	2658	3061	2900



TEST NUMBER: P238774

CATALOG NUMBER: 14EN-LD2-47-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	3.2
10°-20°	435.8	9.2
20°-30°	664.3	14.0
30°-40°	808.9	17.1
40°-50°	850.5	18.0
50°-60°	780.7	16.5
60°-70°	599.8	12.7
70°-80°	334.8	7.1
80°-90°	101.6	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°	1251.8	26.5
0°-40°	2060.7	43.6
0°-60°	3691.8	78.1
0°-90°	4728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1597	1597	1590	1597	1600	152
15°	1545	1545	1540	1545	1547	436
25°	1445	1440	1437	1442	1445	666
35°	1302	1297	1287	1290	1290	814
45°	1120	1112	1097	1092	1092	864
55°	905	897	870	855	857	807
65°	647	630	595	587	587	640
75°	358	340	315	272	265	378
85°	82	85	95	92	90	100
90°	0	0	0	0	0	



TEST NUMBER: P238774

CATALOG NUMBER: 14EN-LD2-47-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1602.3	1602.3	1602.3	1602.3	1602.3
2.5°	1602.3	1602.3	1594.8	1602.3	1604.8
5°	1597.3	1597.3	1589.8	1597.3	1599.8
7.5°	1589.8	1589.8	1582.3	1587.3	1592.3
10°	1577.3	1577.3	1572.3	1577.3	1579.8
12.5°	1564.8	1562.3	1557.3	1562.3	1564.8
15°	1544.8	1544.8	1539.8	1544.8	1547.3
17.5°	1524.8	1522.3	1517.3	1524.8	1527.3
20°	1499.8	1497.3	1492.3	1499.8	1504.8
22.5°	1472.4	1469.9	1467.4	1474.9	1477.4
25°	1444.9	1439.9	1437.4	1442.4	1444.9
27.5°	1409.9	1407.4	1404.9	1407.4	1409.9
30°	1377.4	1372.4	1369.9	1369.9	1374.9
32.5°	1337.4	1334.9	1332.4	1334.9	1334.9
35°	1302.4	1297.4	1287.4	1289.9	1289.9
37.5°	1259.9	1252.4	1244.9	1244.9	1244.9
40°	1214.9	1209.9	1199.9	1197.4	1199.9
42.5°	1167.4	1162.4	1152.4	1144.9	1147.4
45°	1119.9	1112.4	1097.4	1092.4	1092.4
47.5°	1069.9	1062.4	1044.9	1037.4	1039.9
50°	1017.4	1007.4	987.4	977.4	977.4
52.5°	962.4	952.4	932.4	919.9	919.9
55°	904.9	897.4	869.9	854.9	857.4
57.5°	839.9	832.4	804.9	787.4	787.4
60°	782.4	767.4	734.9	722.4	722.4
62.5°	717.4	699.9	667.4	652.4	654.9
65°	647.4	629.9	594.9	587.4	587.4
67.5°	577.4	562.4	529.9	517.4	504.9
70°	502.4	487.5	462.5	432.5	417.5
72.5°	432.5	415.0	392.5	347.5	332.5
75°	357.5	340.0	315.0	272.5	265.0
77.5°	285.0	270.0	235.0	225.0	230.0
80°	212.5	207.5	182.5	192.5	200.0
82.5°	142.5	140.0	145.0	150.0	150.0
85°	82.5	85.0	95.0	92.5	90.0
87.5°	35.0	42.5	40.0	40.0	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)