

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: P184029

Luminaire Tested: **12EN-LD2-08-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184029
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-L840-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 848.6 lumens
Efficiency: N/A
Efficacy: 85.7 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

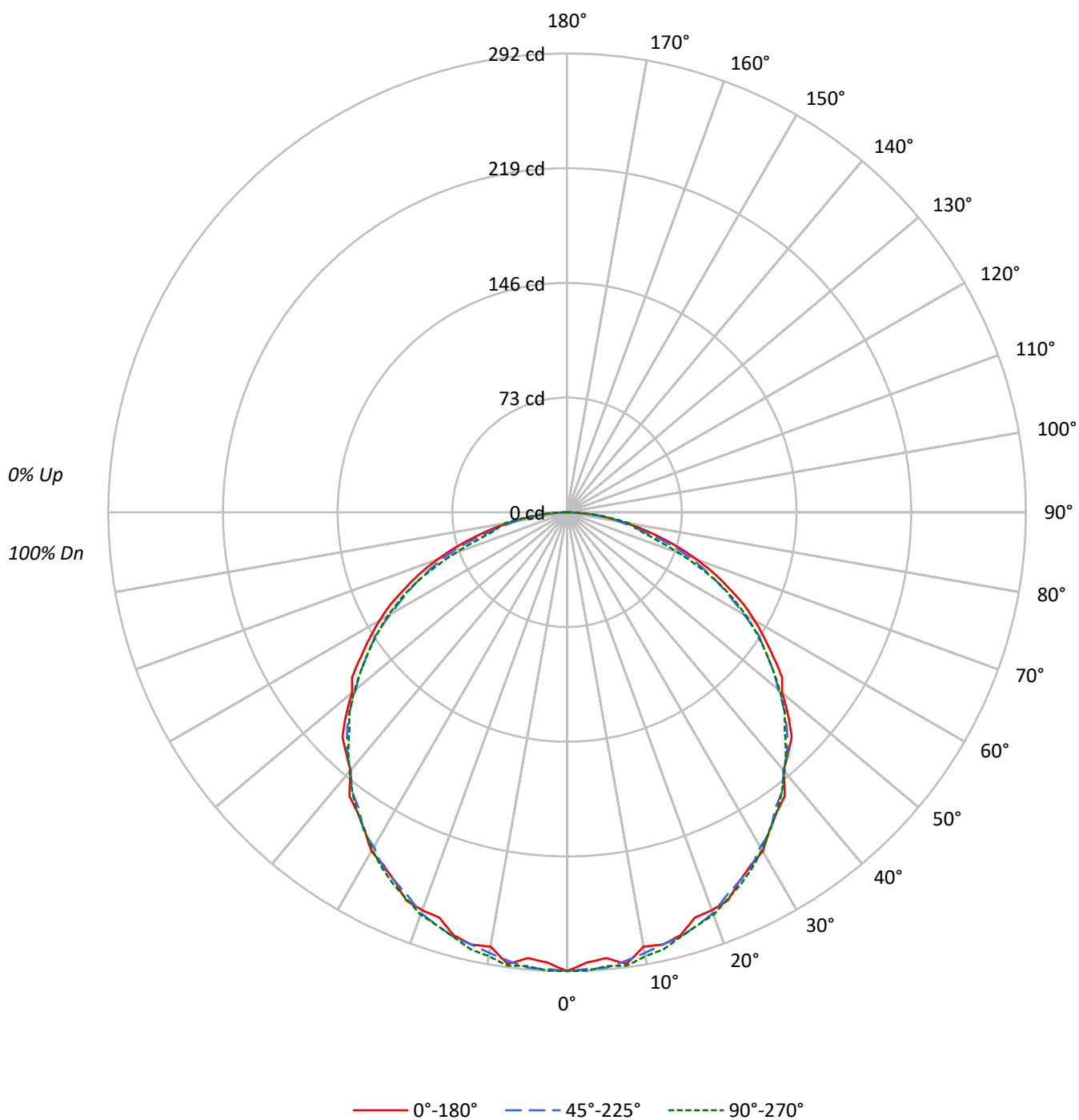
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P184029

CATALOG NUMBER: 12EN-LD2-08-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P184029

CATALOG NUMBER: 12EN-LD2-08-UNV-L840-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	69	60	54	66	59	53	64	57	52	61	56	52	49		
5	75	62	53	46	73	61	53	46	59	52	46	57	50	45	55	49	45	43		
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37		
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33		
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29		
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1571	1571	1571
5°	1538	1572	1566
10°	1533	1556	1567
15°	1552	1558	1558
20°	1543	1555	1561
25°	1539	1539	1552
30°	1547	1528	1541
35°	1529	1515	1529
40°	1506	1506	1513
45°	1538	1507	1491
50°	1495	1469	1479
55°	1503	1446	1446
60°	1483	1395	1417
65°	1443	1351	1351
70°	1382	1301	1188
75°	1273	1146	1040
80°	1137	1044	1234
85°	945	1068	1007



TEST NUMBER: P184029

CATALOG NUMBER: 12EN-LD2-08-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.6	3.3
10°-20°	78.8	9.3
20°-30°	120.0	14.1
30°-40°	145.3	17.1
40°-50°	152.4	18.0
50°-60°	139.4	16.4
60°-70°	106.5	12.6
70°-80°	59.9	7.1
80°-90°	18.7	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°	226.4	26.7
0°-40°	371.7	43.8
0°-60°	663.5	78.2
0°-90°	848.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	848.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	292	292	292	292	292	
5°	285	290	291	293	290	27
15°	279	279	280	280	280	78
25°	259	260	259	261	261	120
35°	233	232	231	233	233	146
45°	202	199	198	196	196	154
55°	160	158	154	154	154	143
65°	113	110	106	105	106	112
75°	61	59	55	51	50	65
85°	15	15	17	16	16	18
90°	0	0	0	0	0	



TEST NUMBER: P184029

CATALOG NUMBER: 12EN-LD2-08-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	291.9	291.9	291.9	291.9	291.9
2.5°	286.8	290.9	290.9	292.9	291.9
5°	284.7	289.8	290.9	292.9	289.8
7.5°	289.8	288.8	287.8	289.8	290.9
10°	280.6	284.7	284.7	289.8	286.8
12.5°	281.7	282.7	281.7	281.7	284.7
15°	278.6	278.6	279.6	279.6	279.6
17.5°	270.4	274.5	275.5	276.6	275.5
20°	269.4	270.4	271.5	272.5	272.5
22.5°	267.4	265.3	264.3	268.4	266.4
25°	259.2	260.2	259.2	261.3	261.3
27.5°	253.1	253.1	254.1	253.1	255.1
30°	249.0	248.0	245.9	248.0	248.0
32.5°	239.8	240.8	240.8	239.8	239.8
35°	232.7	231.7	230.6	232.7	232.7
37.5°	227.6	222.5	224.5	223.5	224.5
40°	214.3	217.4	214.3	214.3	215.3
42.5°	208.2	207.2	207.2	206.1	206.1
45°	202.1	199.0	198.0	195.9	195.9
47.5°	190.8	190.8	187.8	185.7	187.8
50°	178.6	179.6	175.5	174.5	176.6
52.5°	172.5	169.4	165.3	166.3	165.3
55°	160.2	158.2	154.1	154.1	154.1
57.5°	149.0	148.0	143.9	142.9	142.9
60°	137.8	135.7	129.6	130.6	131.6
62.5°	126.5	123.5	117.4	119.4	119.4
65°	113.3	110.2	106.1	105.1	106.1
67.5°	101.0	97.0	93.9	92.9	90.8
70°	87.8	85.7	82.7	76.5	75.5
72.5°	74.5	71.4	69.4	62.3	61.2
75°	61.2	59.2	55.1	51.0	50.0
77.5°	49.0	48.0	42.9	42.9	44.9
80°	36.7	35.7	33.7	37.8	39.8
82.5°	25.5	24.5	27.6	28.6	28.6
85°	15.3	15.3	17.3	16.3	16.3
87.5°	6.1	7.1	7.1	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)