

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: P35044

Luminaire Tested: **22EN-LD2-43-HP-UNV-L835-CD1-U**

Test Date: 09/24/16

Test Information

Test Method: LM-79-08
Report Number: P35044
Test Lab: INNOVATION CENTER-P3
Test Date: 09/24/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43-HP-UNV-L835-CD1-U
Description: ENCOUNTER 2X2 LED TROFFER
Light Source: (196) EATON 3500K LEDS
EL232N098E835
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 760 mA
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4392.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.4 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

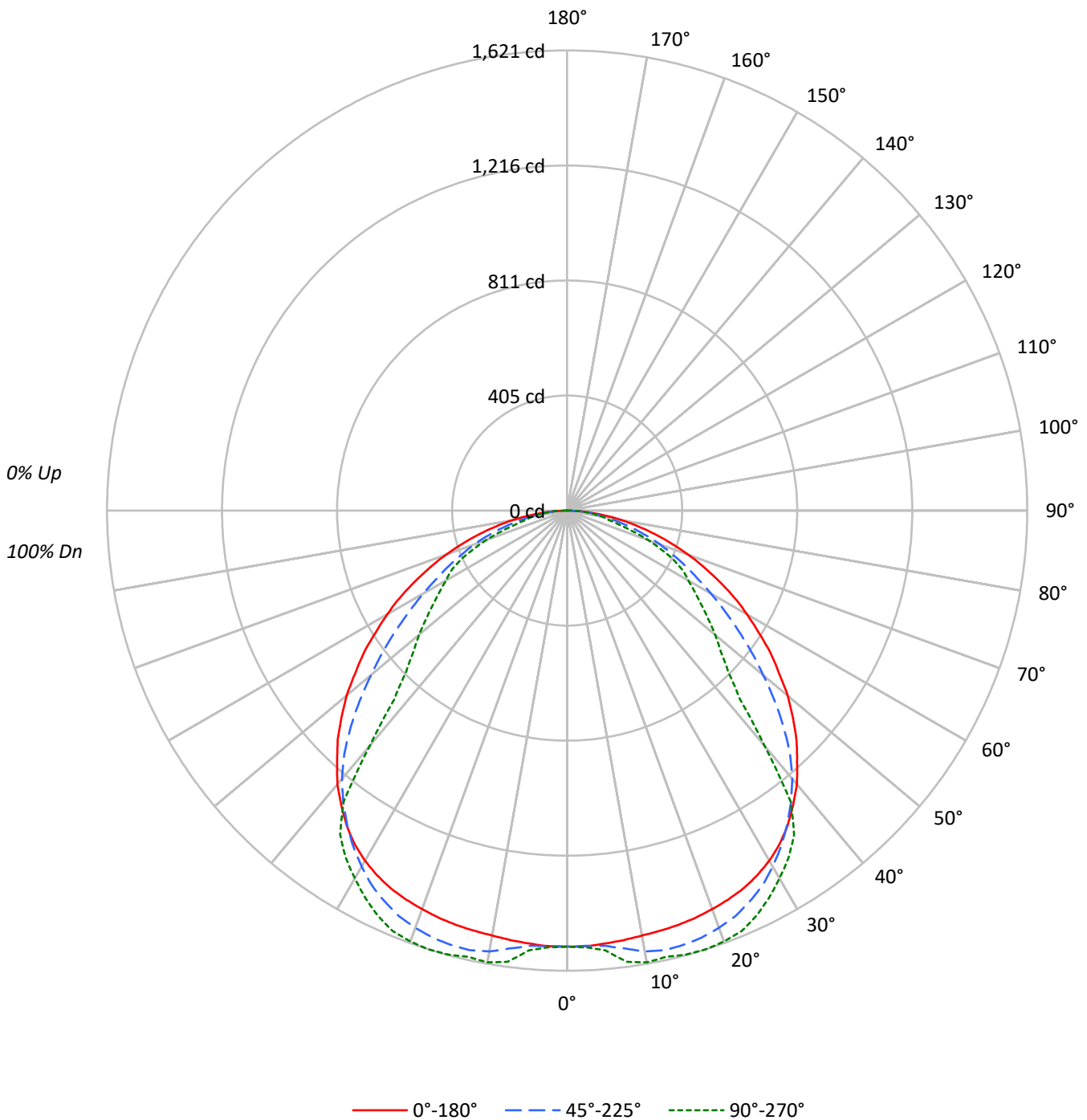
Input Watts (W): 35.4
Input Voltage (V): 120.0
Input Current (A_{in}): 0.296
Voltage Rise (V): NR
Power Factor: 0.9986
Total Harmonic Distortion (THDi): 8.16%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.5
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	42	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4919	4919	4919
5°	4922	4947	4999
10°	4943	5128	5255
15°	5010	5252	5368
20°	5092	5330	5504
25°	5191	5371	5569
30°	5266	5355	5532
35°	5293	5282	5450
40°	5263	5159	4523
45°	5177	4882	3632
50°	5052	4489	3393
55°	4885	4104	3216
60°	4688	3747	3158
65°	4486	3471	3160
70°	4242	3258	2837
75°	3947	2933	2326
80°	3652	2490	2361
85°	2976	2499	2352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	3.4
10°-20°	445.0	10.1
20°-30°	700.8	16.0
30°-40°	845.5	19.3
40°-50°	790.9	18.0
50°-60°	649.5	14.8
60°-70°	473.2	10.8
70°-80°	260.8	5.9
80°-90°	77.9	1.8
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°	1294.2	29.5
0°-40°	2139.7	48.7
0°-60°	3580.1	81.5
0°-90°	4392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1531	1533	1539	1550	1555	146
15°	1511	1538	1584	1605	1619	428
25°	1469	1489	1520	1561	1576	677
35°	1354	1341	1351	1382	1394	845
45°	1143	1104	1078	931	802	880
55°	875	827	735	610	576	780
65°	592	545	458	407	417	587
75°	319	285	237	195	188	339
85°	81	70	68	63	64	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536	1536	1536	1536	1536
2.5°	1536	1535	1535	1538	1540
5°	1531	1533	1539	1550	1555
7.5°	1526	1533	1556	1589	1603
10°	1520	1536	1577	1609	1616
12.5°	1516	1539	1586	1603	1610
15°	1511	1538	1584	1605	1619
17.5°	1504	1533	1577	1604	1621
20°	1494	1525	1564	1597	1615
22.5°	1483	1510	1547	1584	1604
25°	1469	1489	1520	1561	1576
27.5°	1449	1462	1489	1524	1539
30°	1424	1429	1448	1482	1496
32.5°	1393	1387	1403	1438	1451
35°	1354	1341	1351	1382	1394
37.5°	1307	1286	1295	1313	1294
40°	1259	1231	1234	1180	1082
42.5°	1199	1169	1162	1043	901
45°	1143	1104	1078	931	802
47.5°	1078	1038	991	830	733
50°	1014	969	901	745	681
52.5°	941	899	819	675	626
55°	875	827	735	610	576
57.5°	800	756	657	550	533
60°	732	685	585	498	493
62.5°	664	615	517	453	462
65°	592	545	458	407	417
67.5°	523	474	399	362	361
70°	453	410	348	306	303
72.5°	385	347	292	251	241
75°	319	285	237	195	188
77.5°	255	227	186	149	147
80°	198	175	135	125	128
82.5°	137	125	102	97	96
85°	81	70	68	63	64
87.5°	32	31	34	34	36
90°	0	0	0	0	0

(END OF REPORT)