

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: P35086

Luminaire Tested: **14ENA-LD2-51HP-UNV-L827-CD1-U**

Test Date: 10/17/16

Test Information

Test Method: LM-79-08
Report Number: P35086
Test Lab: INNOVATION CENTER-P3
Test Date: 10/17/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ENA-LD2-51HP-UNV-L827-CD1-U
Description: ENCOUNTER AIR 1X4 LED TROFFER
Light Source: (392) EATON 2700K LEDS
EL232N098E827
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 960 mA
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4539.3 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.39 / 1.42
Luminous Opening: Rectangular (W 0.21' x L: 3.83' x H: 0')
CIE Type: Direct

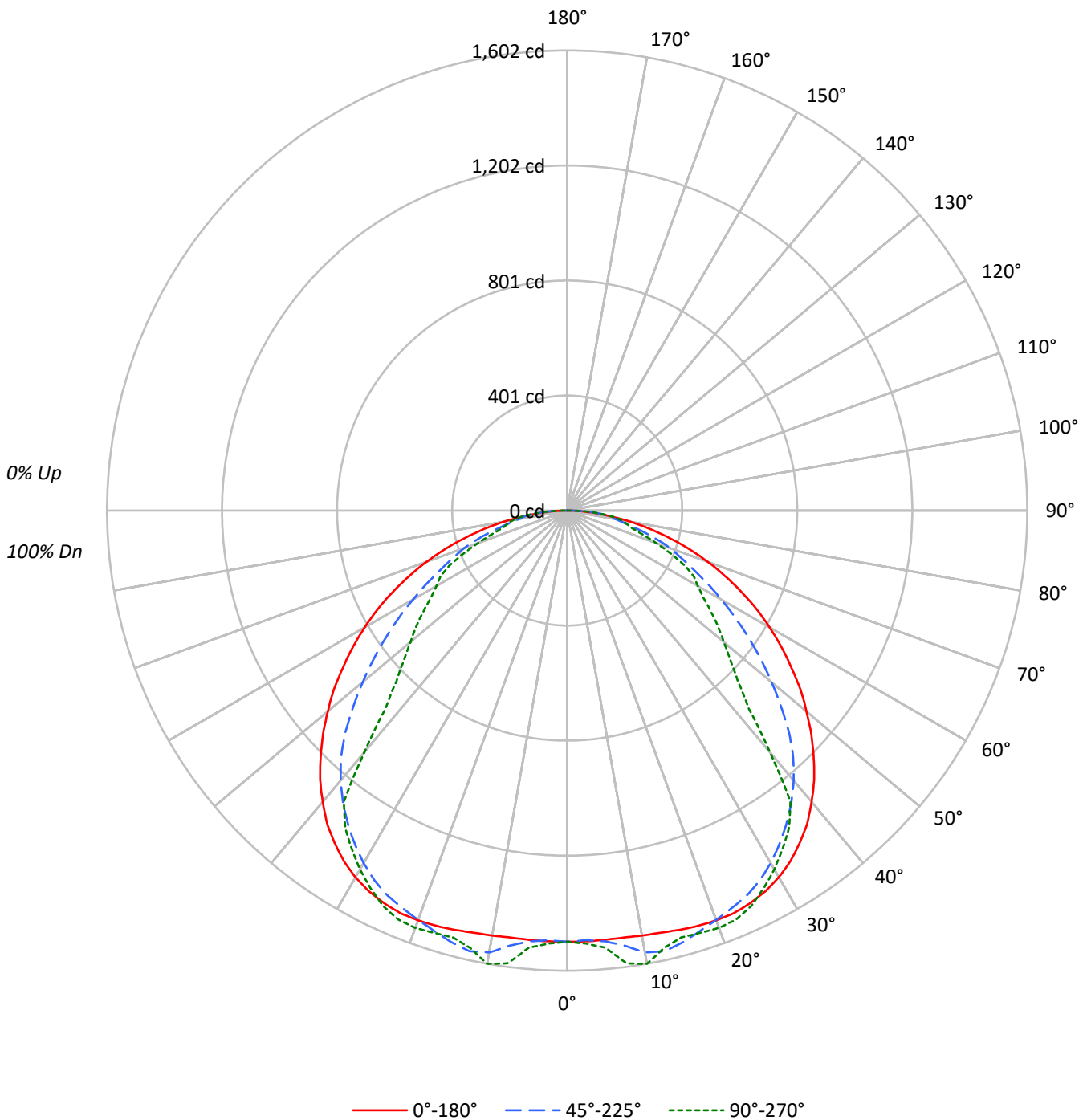
Input Watts (W): 43
Input Voltage (V): 120.0
Input Current (Ain): 0.360
Voltage Rise (V): NR
Power Factor: 0.9996
Total Harmonic Distortion (THDi): 8.43%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.5
Test Distance: 25 FT



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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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20231	20231	20231
5°	20295	20362	20660
10°	20557	21378	21925
15°	21084	21712	21461
20°	21773	21744	22175
25°	22426	21995	22575
30°	22940	22053	22442
35°	23233	21900	22164
40°	23295	21589	19337
45°	23140	20815	16030
50°	22814	19480	14930
55°	22394	18094	14334
60°	21943	16713	14152
65°	21368	15468	14415
70°	20492	15014	12926
75°	19216	13540	12082
80°	17309	13195	14825
85°	14382	16547	17166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	3.2
10°-20°	436.3	9.6
20°-30°	689.0	15.2
30°-40°	842.4	18.6
40°-50°	814.9	18.0
50°-60°	688.2	15.2
60°-70°	514.3	11.3
70°-80°	299.1	6.6
80°-90°	109.2	2.4
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°	1271.2	28.0
0°-40°	2113.7	46.6
0°-60°	3616.7	79.7
0°-90°	4539.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4539.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1500	1502	1505	1520	1527	143
15°	1511	1537	1556	1540	1538	428
25°	1508	1490	1479	1508	1518	695
35°	1412	1357	1331	1348	1347	883
45°	1214	1138	1092	953	841	936
55°	953	874	770	646	610	853
65°	670	590	485	452	452	662
75°	369	312	260	233	232	391
85°	93	91	107	110	111	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501	1501	1501	1501	1501
2.5°	1501	1501	1497	1505	1509
5°	1500	1502	1505	1520	1527
7.5°	1499	1508	1527	1568	1590
10°	1502	1520	1562	1602	1602
12.5°	1505	1532	1571	1568	1559
15°	1511	1537	1556	1540	1538
17.5°	1516	1532	1535	1531	1541
20°	1518	1522	1516	1530	1546
22.5°	1517	1508	1498	1525	1540
25°	1508	1490	1479	1508	1518
27.5°	1494	1466	1452	1477	1482
30°	1474	1437	1417	1436	1442
32.5°	1447	1399	1376	1393	1396
35°	1412	1357	1331	1348	1347
37.5°	1373	1310	1282	1287	1277
40°	1324	1255	1227	1183	1099
42.5°	1273	1198	1165	1064	937
45°	1214	1138	1092	953	841
47.5°	1153	1075	1010	864	771
50°	1088	1011	929	783	712
52.5°	1024	943	850	711	662
55°	953	874	770	646	610
57.5°	885	805	694	585	562
60°	814	732	620	532	525
62.5°	744	660	551	492	498
65°	670	590	485	452	452
67.5°	595	518	429	395	389
70°	520	445	381	335	328
72.5°	446	378	323	279	274
75°	369	312	260	233	232
77.5°	295	251	209	204	211
80°	223	201	170	183	191
82.5°	151	139	144	153	157
85°	93	91	107	110	111
87.5°	44	51	60	60	62
90°	0	0	0	0	0

(END OF REPORT)