

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: P35083

Luminaire Tested: **22ENA-LD2-43HP-UNV-L827-CD1-SVPD1-U**

Test Date: 10/13/16

Test Information

Test Method: LM-79-08
Report Number: P35083
Test Lab: INNOVATION CENTER-P3
Test Date: 10/13/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ENA-LD2-43HP-UNV-L827-CD1-SVPD1-U
Description: ENCOUNTER AIR 2X2 LED TROFFER WITH SENSOR
Light Source: (196) EATON 2700K LEDS
EL232N098E827
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 760 mA
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4109.9 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.4 / 1.4
Luminous Opening: Rectangular (W 1.79' x L: 1.83' x H: 0')
CIE Type: Direct

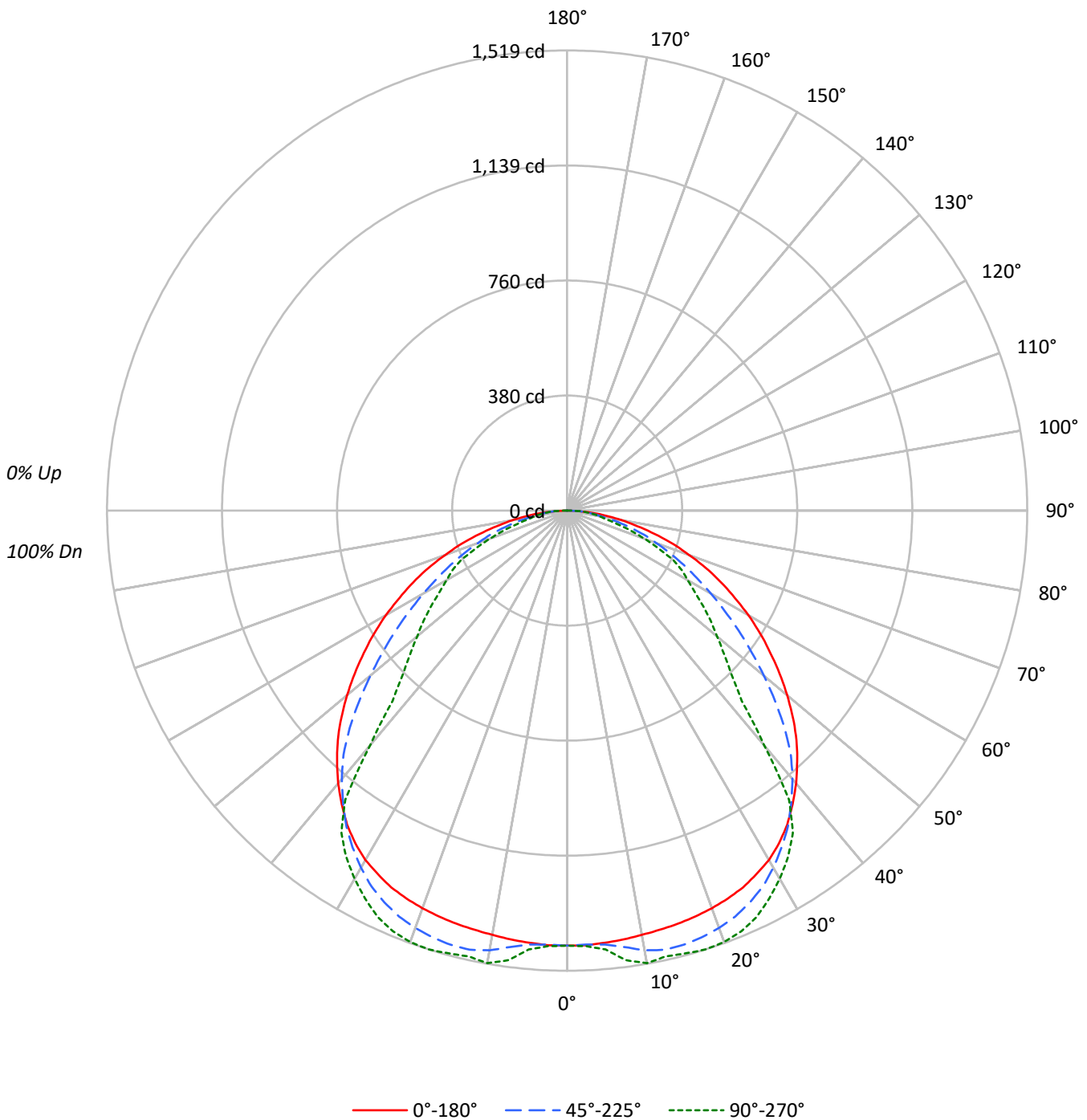
Input Watts (W): 35.9
Input Voltage (V): 277.0
Input Current (Ain): 0.135
Voltage Rise (V): NR
Power Factor: 0.9728
Total Harmonic Distortion (THDi): 17.4%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.5
Test Distance: 25 FT



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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	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	59	54	52
5	77	65	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	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4706	4706	4706
5°	4711	4730	4783
10°	4732	4905	5048
15°	4790	5035	5133
20°	4872	5112	5283
25°	4964	5160	5351
30°	5040	5150	5309
35°	5065	5085	5197
40°	5031	4949	4333
45°	4963	4704	3559
50°	4833	4318	3293
55°	4679	3948	3125
60°	4529	3592	3008
65°	4350	3288	2993
70°	4101	3008	2597
75°	3786	2697	2152
80°	3435	2265	2038
85°	2933	2331	2406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	3.4
10°-20°	416.5	10.1
20°-30°	657.1	16.0
30°-40°	792.0	19.3
40°-50°	744.9	18.1
50°-60°	611.6	14.9
60°-70°	440.2	10.7
70°-80°	238.0	5.8
80°-90°	71.0	1.7
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°	1212.2	29.5
0°-40°	2004.2	48.8
0°-60°	3360.7	81.8
0°-90°	4109.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4109.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1432	1432	1438	1448	1454	136
15°	1412	1437	1484	1501	1513	400
25°	1373	1394	1427	1466	1480	633
35°	1266	1258	1271	1292	1299	790
45°	1071	1043	1015	875	768	824
55°	819	783	691	572	547	733
65°	561	510	424	377	386	554
75°	299	262	213	179	170	319
85°	78	67	62	61	64	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436	1436	1436	1436	1436
2.5°	1436	1434	1434	1437	1439
5°	1432	1432	1438	1448	1454
7.5°	1428	1432	1453	1480	1497
10°	1422	1435	1474	1509	1517
12.5°	1417	1437	1485	1504	1507
15°	1412	1437	1484	1501	1513
17.5°	1405	1434	1477	1503	1519
20°	1397	1426	1466	1498	1515
22.5°	1386	1412	1450	1487	1503
25°	1373	1394	1427	1466	1480
27.5°	1353	1369	1399	1432	1444
30°	1332	1338	1361	1393	1403
32.5°	1302	1301	1318	1346	1357
35°	1266	1258	1271	1292	1299
37.5°	1222	1209	1215	1220	1203
40°	1176	1158	1157	1107	1013
42.5°	1124	1101	1093	979	853
45°	1071	1043	1015	875	768
47.5°	1011	981	931	784	703
50°	948	914	847	706	646
52.5°	884	851	767	636	597
55°	819	783	691	572	547
57.5°	756	714	616	517	498
60°	691	644	548	469	459
62.5°	624	577	482	421	427
65°	561	510	424	377	386
67.5°	496	445	368	327	326
70°	428	379	314	276	271
72.5°	367	318	266	225	220
75°	299	262	213	179	170
77.5°	238	209	166	136	131
80°	182	158	120	108	108
82.5°	129	109	87	85	86
85°	78	67	62	61	64
87.5°	30	29	33	34	35
90°	0	0	0	0	0

(END OF REPORT)