

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: P35081

Luminaire Tested: **12EN-LD2-39HP-UNV-L835-CD1-SVPD1-U**

Test Date: 10/09/16

**Test Information**

Test Method: LM-79-08  
Report Number: P35081  
Test Lab: INNOVATION CENTER-P3  
Test Date: 10/09/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12EN-LD2-39HP-UNV-L835-CD1-SVPD1-U  
Description: ENCOUNTER 1X2 LED TROFFER WITH SENSOR  
Light Source: (196) EATON 3500K LEDS  
EL232N098E835  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 760 mA  
OT50W/PRG1400C/UNV/DIM/L

**Summary**

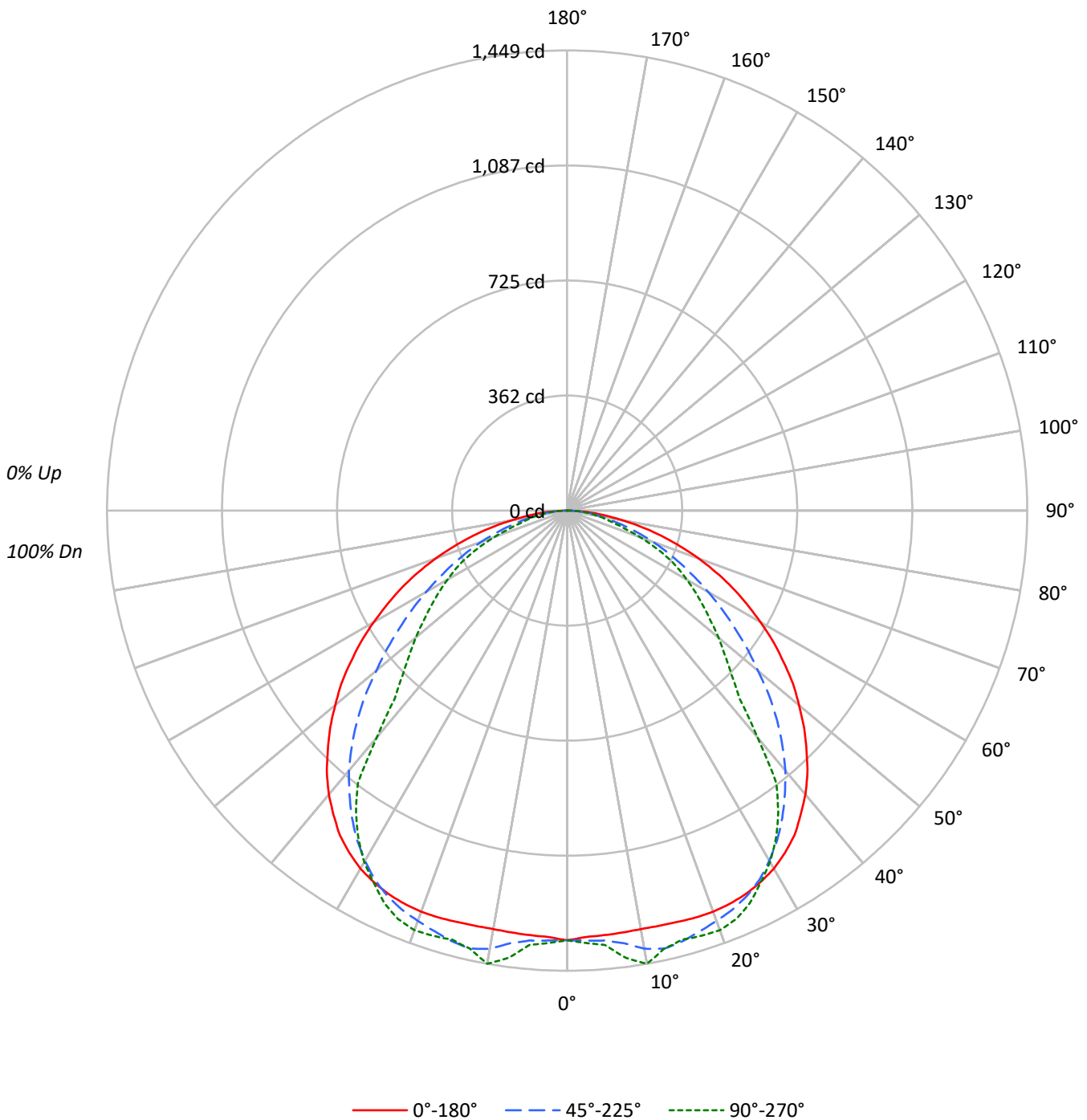
Lumens per Lamp: N/A  
Luminaire Lumens: 3877.9 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.35 / 1.39  
Luminous Opening: Rectangular (W 0.79' x L: 1.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35.2  
Input Voltage (V): 120.0  
Input Current (Ain): 0.295  
Voltage Rise (V): NR  
Power Factor: 0.9986  
Total Harmonic Distortion (THDi): 7.41%  
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	101	97	107	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	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	43		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°	10034	10034	10034
5°	9991	10117	10221
10°	10076	10550	10912
15°	10296	10780	10741
20°	10607	10852	11096
25°	10900	10957	11153
30°	11150	10901	10944
35°	11299	10692	10493
40°	11298	10349	9023
45°	11180	9806	7688
50°	10995	9046	7188
55°	10758	8314	6762
60°	10427	7594	6452
65°	10073	6897	6107
70°	9541	6223	5291
75°	8797	5358	4355
80°	7602	4527	4356
85°	6807	4595	4425



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.1	3.4
10°-20°	392.7	10.1
20°-30°	617.9	15.9
30°-40°	740.8	19.1
40°-50°	705.9	18.2
50°-60°	587.3	15.1
60°-70°	418.9	10.8
70°-80°	220.8	5.7
80°-90°	62.5	1.6
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°	1141.7	29.4
0°-40°	1882.5	48.5
0°-60°	3175.7	81.9
0°-90°	3877.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3877.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1342	1347	1359	1369	1373	128
15°	1341	1370	1404	1398	1399	380
25°	1332	1330	1339	1359	1363	614
35°	1248	1208	1181	1169	1159	778
45°	1066	1003	935	813	733	822
55°	832	755	643	546	523	744
65°	574	490	393	349	348	567
75°	307	242	187	160	152	325
85°	80	53	54	53	52	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1353	1353	1353	1353	1353
2.5°	1344	1348	1355	1360	1363
5°	1342	1347	1359	1369	1373
7.5°	1340	1350	1374	1403	1421
10°	1338	1357	1401	1443	1449
12.5°	1339	1366	1413	1420	1413
15°	1341	1370	1404	1398	1399
17.5°	1344	1366	1389	1394	1404
20°	1344	1358	1375	1392	1406
22.5°	1340	1347	1360	1383	1392
25°	1332	1330	1339	1359	1363
27.5°	1319	1310	1311	1321	1320
30°	1302	1283	1273	1276	1278
32.5°	1277	1249	1231	1226	1224
35°	1248	1208	1181	1169	1159
37.5°	1208	1162	1126	1101	1083
40°	1167	1113	1069	1010	932
42.5°	1120	1058	1003	907	804
45°	1066	1003	935	813	733
47.5°	1012	944	863	734	673
50°	953	883	784	666	623
52.5°	897	820	714	604	569
55°	832	755	643	546	523
57.5°	770	689	578	493	479
60°	703	622	512	445	435
62.5°	638	556	451	397	394
65°	574	490	393	349	348
67.5°	507	425	339	301	296
70°	440	362	287	252	244
72.5°	373	301	236	205	193
75°	307	242	187	160	152
77.5°	242	189	145	126	124
80°	178	137	106	101	102
82.5°	124	94	79	77	76
85°	80	53	54	53	52
87.5°	33	26	26	22	21
90°	0	0	0	0	0

(END OF REPORT)