

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: P35062

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

Test Date: 09/25/16

Test Information

Test Method: LM-79-08
Report Number: P35062
Test Lab: INNOVATION CENTER-P3
Test Date: 09/25/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-39-HP-UNV-L835-CD1-U
Description: ENCOUNTER 1X2 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: 3901.3 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.37 / 1.41
Luminous Opening: Rectangular (W 0.83' x L: 1.83' x H: 0')
CIE Type: Direct

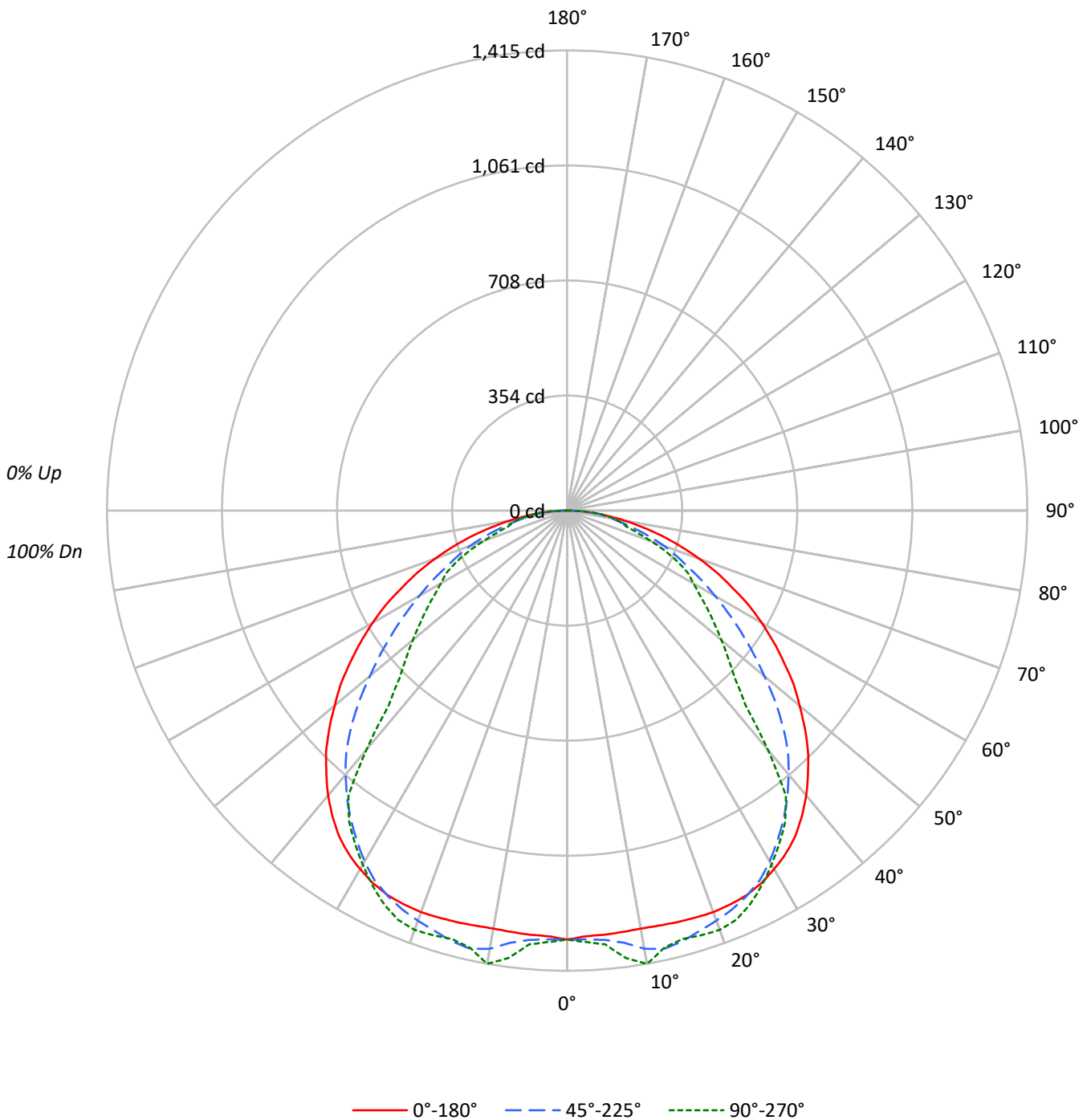
Input Watts (W): 35
Input Voltage (V): 120.0
Input Current (Ain): 0.293
Voltage Rise (V): NR
Power Factor: 0.9985
Total Harmonic Distortion (THDi): 8.04%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.7
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44					44			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9293	9293	9293
5°	9258	9371	9470
10°	9336	9787	10123
15°	9555	10000	9949
20°	9852	10062	10287
25°	10145	10160	10370
30°	10356	10137	10226
35°	10519	9977	10054
40°	10522	9749	8829
45°	10442	9346	7264
50°	10226	8681	6785
55°	9999	8033	6473
60°	9737	7398	6313
65°	9336	6818	6302
70°	8899	6530	5644
75°	8248	5853	5118
80°	7344	5518	6086
85°	6629	6467	6710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	3.3
10°-20°	383.3	9.8
20°-30°	604.3	15.5
30°-40°	732.1	18.8
40°-50°	703.1	18.0
50°-60°	587.3	15.1
60°-70°	432.6	11.1
70°-80°	245.7	6.3
80°-90°	85.0	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°	1115.5	28.6
0°-40°	1847.5	47.4
0°-60°	3137.9	80.4
0°-90°	3901.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3901.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1309	1314	1325	1335	1339	125
15°	1310	1337	1371	1363	1364	371
25°	1305	1300	1307	1329	1334	601
35°	1223	1183	1160	1166	1169	763
45°	1048	981	938	825	729	806
55°	814	744	654	554	527	728
65°	560	493	409	378	378	556
75°	303	257	215	191	188	320
85°	82	73	80	81	83	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319	1319	1319	1319	1319
2.5°	1310	1314	1320	1326	1328
5°	1309	1314	1325	1335	1339
7.5°	1307	1316	1340	1371	1388
10°	1305	1325	1368	1411	1415
12.5°	1307	1333	1380	1385	1377
15°	1310	1337	1371	1363	1364
17.5°	1312	1334	1355	1359	1369
20°	1314	1326	1342	1358	1372
22.5°	1311	1315	1327	1350	1361
25°	1305	1300	1307	1329	1334
27.5°	1292	1279	1282	1295	1298
30°	1273	1254	1246	1256	1257
32.5°	1251	1221	1203	1213	1214
35°	1223	1183	1160	1166	1169
37.5°	1185	1138	1112	1112	1105
40°	1144	1088	1060	1026	960
42.5°	1096	1036	1005	922	812
45°	1048	981	938	825	729
47.5°	992	924	867	747	671
50°	933	867	792	675	619
52.5°	878	804	722	612	570
55°	814	744	654	554	527
57.5°	753	682	588	499	484
60°	691	616	525	455	448
62.5°	629	558	468	415	420
65°	560	493	409	378	378
67.5°	498	433	363	328	328
70°	432	374	317	278	274
72.5°	367	313	266	231	225
75°	303	257	215	191	188
77.5°	238	208	172	165	169
80°	181	160	136	144	150
82.5°	126	112	113	118	119
85°	82	73	80	81	83
87.5°	36	38	42	44	45
90°	0	0	0	0	0

(END OF REPORT)