

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: P35061

Luminaire Tested: **12EN-LD2-35-HP-UNV-L835-CD1-U**

Test Date: 09/25/16

**Test Information**

Test Method: LM-79-08  
Report Number: P35061  
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-LD2-35-HP-UNV-L835-CD1-U  
Description: ENCOUNTER 1X2 LED TROFFER  
Light Source: (196) EATON 3500K LEDS  
EL232N098E835  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 680 mA  
OT50W/PRG1400C/UNV/DIM/L

**Summary**

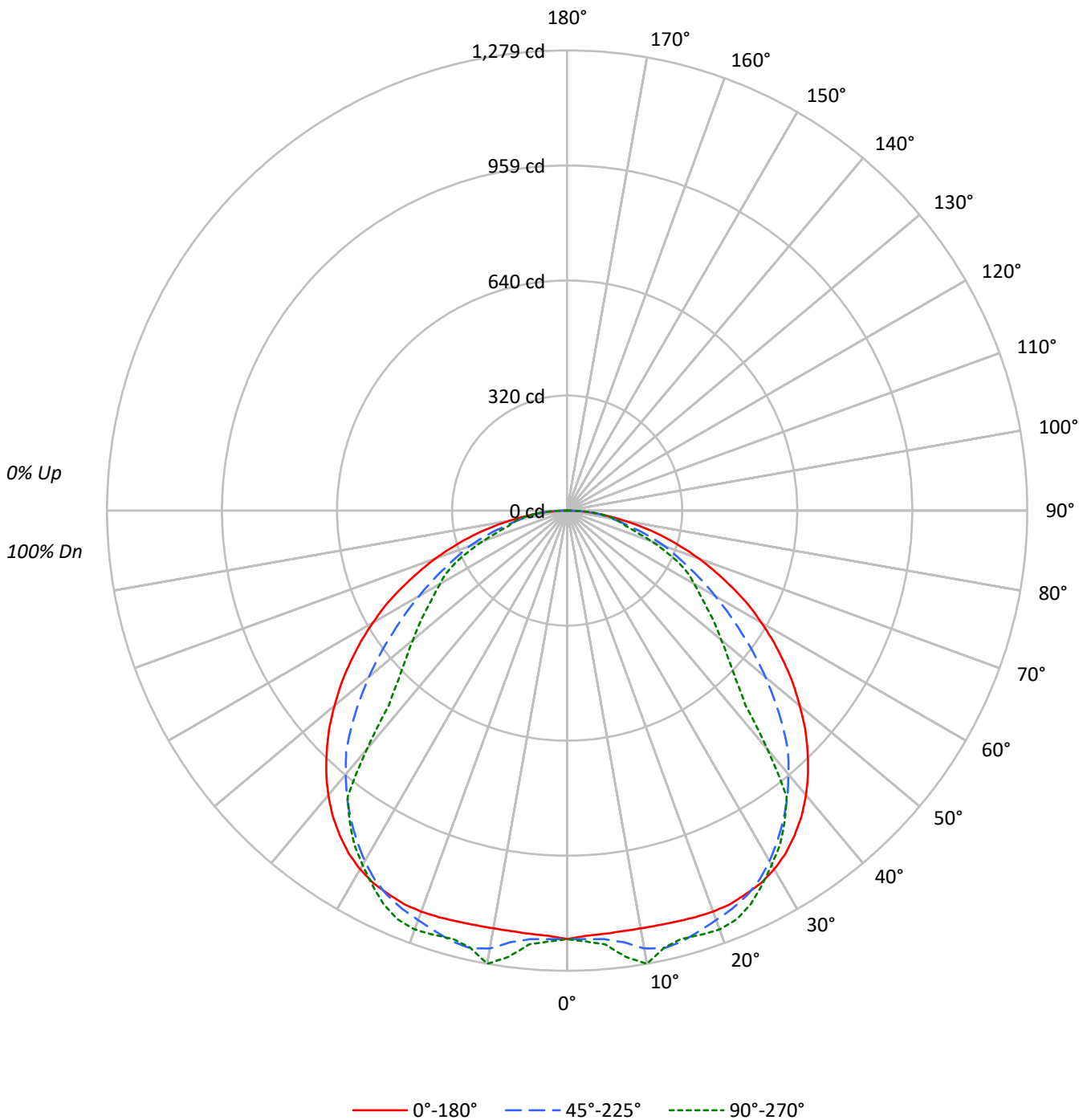
Lumens per Lamp: N/A  
Luminaire Lumens: 3527.4 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.42 / 1.37 / 1.41  
Luminous Opening: Rectangular (W 0.83' x L: 1.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.1  
Input Voltage (V): 120.0  
Input Current (Ain): 0.261  
Voltage Rise (V): NR  
Power Factor: 0.9979  
Total Harmonic Distortion (THDi): 8.08%  
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	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	95	98	94	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64		73	67	63		70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55		65	59	54		63	58	53	51
5	76	64	55	48	74	63	54	48	61	53	47		59	52	47		57	51	46	44
6	71	57	49	42	69	57	48	42	55	47	42		53	46	41		51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8391	8391	8391
5°	8352	8459	8558
10°	8435	8843	9150
15°	8622	9037	8986
20°	8892	9080	9290
25°	9142	9181	9383
30°	9364	9152	9250
35°	9478	9014	9065
40°	9501	8802	7965
45°	9416	8439	6596
50°	9251	7881	6127
55°	9041	7259	5847
60°	8793	6693	5749
65°	8436	6185	5701
70°	8034	5933	5150
75°	7459	5308	4655
80°	6532	5031	5559
85°	5820	5982	6225



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	3.3
10°-20°	346.2	9.8
20°-30°	545.8	15.5
30°-40°	661.6	18.8
40°-50°	635.8	18.0
50°-60°	532.0	15.1
60°-70°	391.1	11.1
70°-80°	222.3	6.3
80°-90°	77.2	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°	1007.5	28.6
0°-40°	1669.1	47.3
0°-60°	2836.9	80.4
0°-90°	3527.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3527.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1181	1186	1196	1206	1210	113
15°	1182	1208	1239	1231	1232	335
25°	1176	1174	1181	1199	1207	543
35°	1102	1068	1048	1055	1054	689
45°	945	887	847	749	662	728
55°	736	675	591	503	476	658
65°	506	445	371	342	342	502
75°	274	231	195	173	171	289
85°	72	65	74	75	77	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1191	1191	1191	1191	1191
2.5°	1183	1187	1192	1197	1199
5°	1181	1186	1196	1206	1210
7.5°	1179	1188	1210	1237	1251
10°	1179	1196	1236	1273	1279
12.5°	1180	1205	1246	1252	1244
15°	1182	1208	1239	1231	1232
17.5°	1185	1205	1225	1227	1236
20°	1186	1198	1211	1227	1239
22.5°	1184	1188	1198	1220	1230
25°	1176	1174	1181	1199	1207
27.5°	1167	1156	1157	1170	1173
30°	1151	1134	1125	1134	1137
32.5°	1130	1103	1088	1098	1101
35°	1102	1068	1048	1055	1054
37.5°	1070	1027	1005	1007	1002
40°	1033	983	957	926	866
42.5°	991	936	909	831	733
45°	945	887	847	749	662
47.5°	897	837	783	675	607
50°	844	784	719	615	559
52.5°	792	727	655	555	518
55°	736	675	591	503	476
57.5°	681	618	532	454	439
60°	624	558	475	411	408
62.5°	568	504	423	376	380
65°	506	445	371	342	342
67.5°	447	391	328	296	295
70°	390	336	288	252	250
72.5°	330	282	241	209	205
75°	274	231	195	173	171
77.5°	217	188	156	149	153
80°	161	146	124	131	137
82.5°	113	101	102	108	109
85°	72	65	74	75	77
87.5°	31	34	39	40	41
90°	0	0	0	0	0

(END OF REPORT)