

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: P35041

Luminaire Tested: **22EN-LD2-30-HP-UNV-L835-CD1-U**

Test Date: 09/24/16

**Test Information**

Test Method: LM-79-08  
Report Number: P35041  
Test Lab: INNOVATION CENTER-P3  
Test Date: 09/24/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-30-HP-UNV-L835-CD1-U  
Description: ENCOUNTER 2X2 LED TROFFER  
Light Source: (196) EATON 3500K LEDS  
EL232N098E835  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 520 mA  
OT50W/PRG1400C/UNV/DIM/L

**Summary**

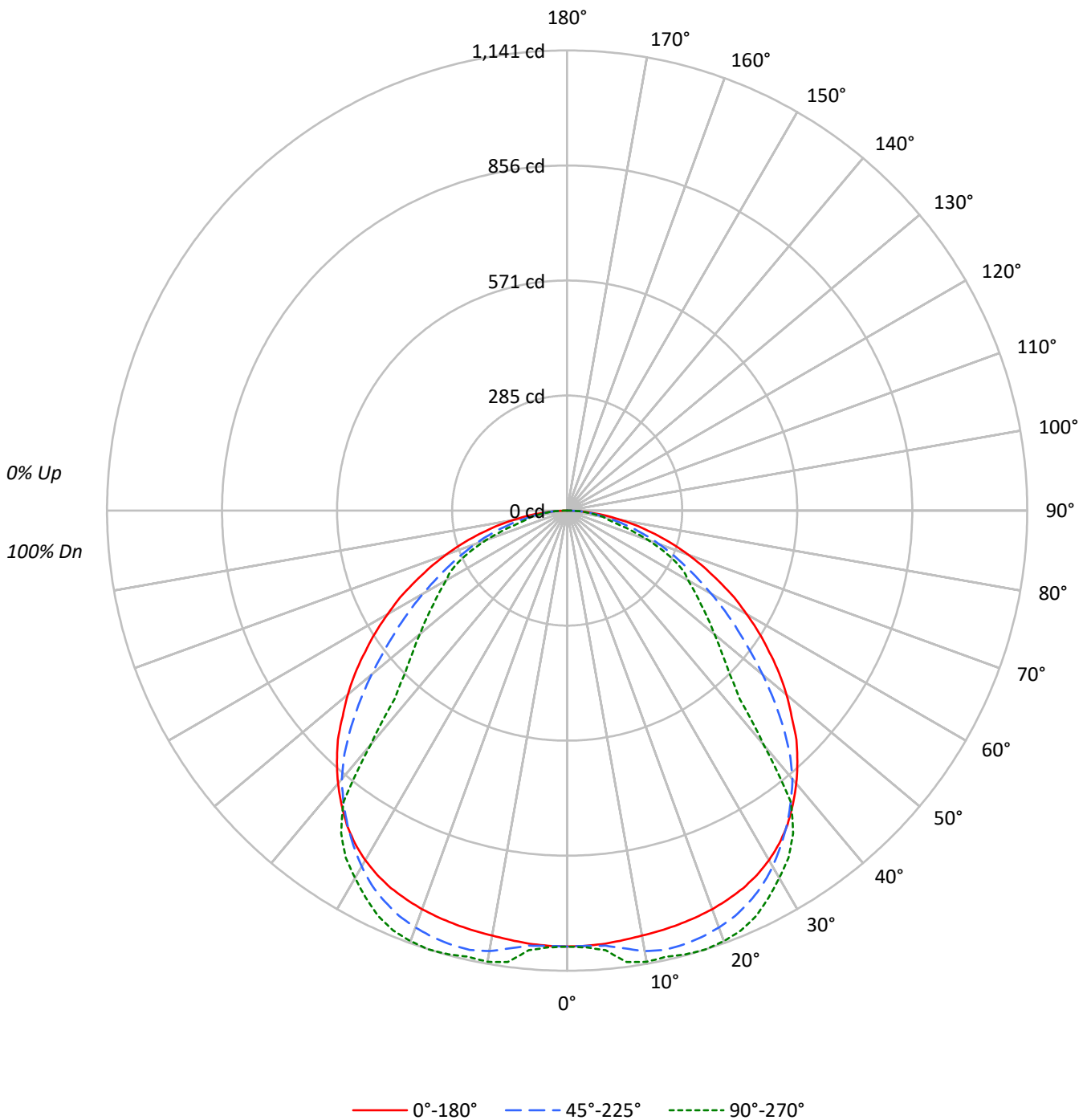
Lumens per Lamp: N/A  
Luminaire Lumens: 3088.8 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.8  
Input Voltage (V): 120.1  
Input Current (Ain): 0.200  
Voltage Rise (V): NR  
Power Factor: 0.9962  
Total Harmonic Distortion (THDi): 7.63%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 5 HR  
Ambient Temperature (°C): 24.9  
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	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	32
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°	3462	3462	3462
5°	3465	3482	3517
10°	3480	3606	3694
15°	3524	3693	3776
20°	3585	3749	3872
25°	3650	3781	3919
30°	3702	3768	3890
35°	3722	3714	3820
40°	3696	3633	3173
45°	3641	3428	2568
50°	3537	3154	2377
55°	3417	2881	2261
60°	3292	2639	2223
65°	3145	2432	2220
70°	2987	2266	1994
75°	2784	2066	1596
80°	2508	1752	1660
85°	2058	1764	1690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.4	3.4
10°-20°	313.0	10.1
20°-30°	493.1	16.0
30°-40°	594.5	19.2
40°-50°	556.3	18.0
50°-60°	456.7	14.8
60°-70°	332.6	10.8
70°-80°	183.3	5.9
80°-90°	54.8	1.8
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°	910.5	29.5
0°-40°	1505.0	48.7
0°-60°	2518.1	81.5
0°-90°	3088.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3088.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1078	1078	1083	1091	1094	103
15°	1063	1082	1114	1128	1139	301
25°	1033	1048	1070	1098	1109	476
35°	952	943	950	973	977	594
45°	804	777	757	656	567	618
55°	612	583	516	427	405	548
65°	415	383	321	285	293	412
75°	225	202	167	138	129	239
85°	56	50	48	45	46	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1081	1081	1081	1081	1081
2.5°	1080	1080	1080	1083	1084
5°	1078	1078	1083	1091	1094
7.5°	1074	1078	1095	1118	1129
10°	1070	1081	1109	1131	1136
12.5°	1067	1082	1116	1128	1133
15°	1063	1082	1114	1128	1139
17.5°	1058	1078	1109	1128	1141
20°	1052	1073	1100	1124	1136
22.5°	1043	1062	1088	1115	1127
25°	1033	1048	1070	1098	1109
27.5°	1019	1029	1048	1073	1082
30°	1001	1005	1019	1044	1052
32.5°	979	977	986	1010	1021
35°	952	943	950	973	977
37.5°	919	904	911	921	912
40°	884	865	869	831	759
42.5°	845	822	817	735	633
45°	804	777	757	656	567
47.5°	755	728	695	586	519
50°	710	682	633	527	477
52.5°	663	632	572	475	440
55°	612	583	516	427	405
57.5°	564	533	464	387	375
60°	514	481	412	351	347
62.5°	467	432	365	320	326
65°	415	383	321	285	293
67.5°	367	334	281	253	255
70°	319	288	242	216	213
72.5°	273	242	205	176	170
75°	225	202	167	138	129
77.5°	181	160	130	105	103
80°	136	123	95	88	90
82.5°	98	86	72	67	67
85°	56	50	48	45	46
87.5°	23	23	24	24	25
90°	0	0	0	0	0

(END OF REPORT)