

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: P35042

Luminaire Tested: **22EN-LD2-34-HP-UNV-L835-CD1-U**

Test Date: 09/24/16

Test Information

Test Method: LM-79-08
Report Number: P35042
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-LD2-34-HP-UNV-L835-CD1-U
Description: ENCOUNTER 2X2 LED TROFFER
Light Source: (196) EATON 3500K LEDS
EL232N098E835
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 580 mA
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3422.6 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.4 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

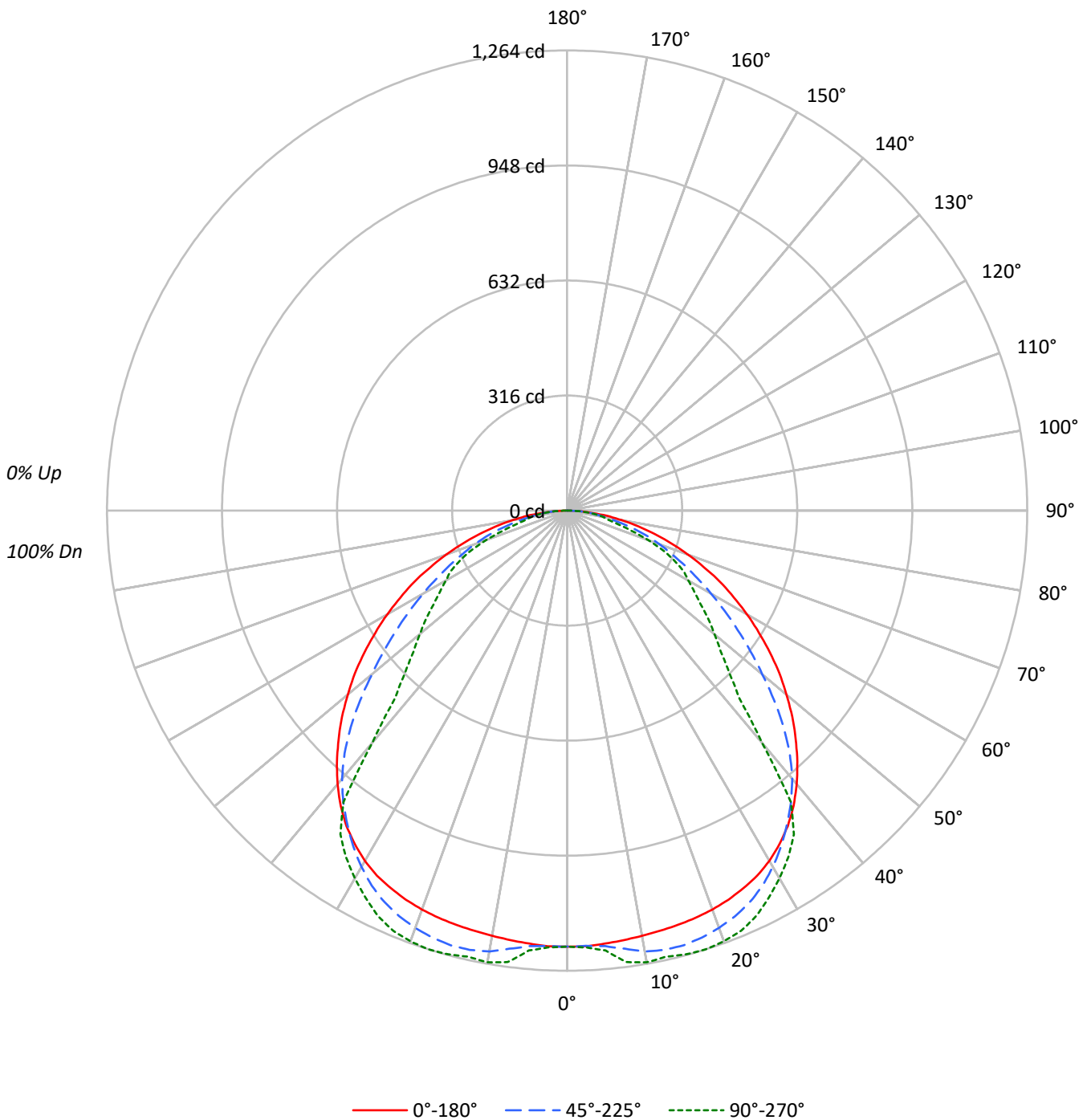
Input Watts (W): 26.6
Input Voltage (V): 120.1
Input Current (Ain): 0.223
Voltage Rise (V): NR
Power Factor: 0.9971
Total Harmonic Distortion (THDi): 7.75%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.7
Test Distance: 25 FT



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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	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	31	42	35	30	41	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°	3837	3837	3837
5°	3838	3861	3899
10°	3857	4000	4097
15°	3906	4098	4184
20°	3974	4158	4291
25°	4046	4194	4343
30°	4108	4179	4312
35°	4132	4117	4246
40°	4101	4022	3482
45°	4022	3809	2849
50°	3916	3488	2631
55°	3797	3194	2496
60°	3657	2927	2460
65°	3516	2698	2463
70°	3305	2528	2210
75°	3081	2289	1782
80°	2803	1936	1863
85°	2278	1947	1837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.4
10°-20°	347.0	10.1
20°-30°	546.7	16.0
30°-40°	658.9	19.3
40°-50°	616.3	18.0
50°-60°	505.7	14.8
60°-70°	368.6	10.8
70°-80°	202.8	5.9
80°-90°	60.9	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°	1009.4	29.5
0°-40°	1668.3	48.7
0°-60°	2790.3	81.5
0°-90°	3422.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3422.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1194	1195	1201	1209	1213	114
15°	1178	1199	1236	1251	1262	333
25°	1145	1162	1187	1217	1229	528
35°	1057	1045	1053	1078	1086	660
45°	888	862	841	723	629	685
55°	680	644	572	474	447	608
65°	464	423	356	316	325	457
75°	249	221	185	152	144	264
85°	62	54	53	50	50	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198	1198	1198	1198	1198
2.5°	1198	1197	1197	1200	1201
5°	1194	1195	1201	1209	1213
7.5°	1190	1196	1214	1238	1251
10°	1186	1198	1230	1254	1260
12.5°	1182	1201	1236	1250	1255
15°	1178	1199	1236	1251	1262
17.5°	1173	1195	1230	1251	1264
20°	1166	1189	1220	1246	1259
22.5°	1157	1178	1206	1236	1249
25°	1145	1162	1187	1217	1229
27.5°	1131	1140	1162	1189	1199
30°	1111	1115	1130	1156	1166
32.5°	1086	1080	1094	1119	1130
35°	1057	1045	1053	1078	1086
37.5°	1022	1003	1010	1020	1009
40°	981	959	962	919	833
42.5°	936	910	905	817	700
45°	888	862	841	723	629
47.5°	839	809	771	650	572
50°	786	755	700	582	528
52.5°	735	701	635	525	489
55°	680	644	572	474	447
57.5°	625	589	513	427	414
60°	571	535	457	389	384
62.5°	516	478	404	353	361
65°	464	423	356	316	325
67.5°	407	370	310	282	285
70°	353	317	270	238	236
72.5°	300	268	228	196	187
75°	249	221	185	152	144
77.5°	200	178	143	116	114
80°	152	137	105	98	101
82.5°	110	97	80	74	77
85°	62	54	53	50	50
87.5°	26	25	26	27	27
90°	0	0	0	0	0

(END OF REPORT)