

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: P35071

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

Test Date: 09/25/16

Test Information

Test Method: LM-79-08
Report Number: P35071
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: 22ENA-LD2-34-HP-UNV-L835-CD1-U
Description: ENCOUNTER AIR 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: 3329.2 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.41 / 1.41
Luminous Opening: Rectangular (W 1.79' x L: 1.83' x H: 0')
CIE Type: Direct

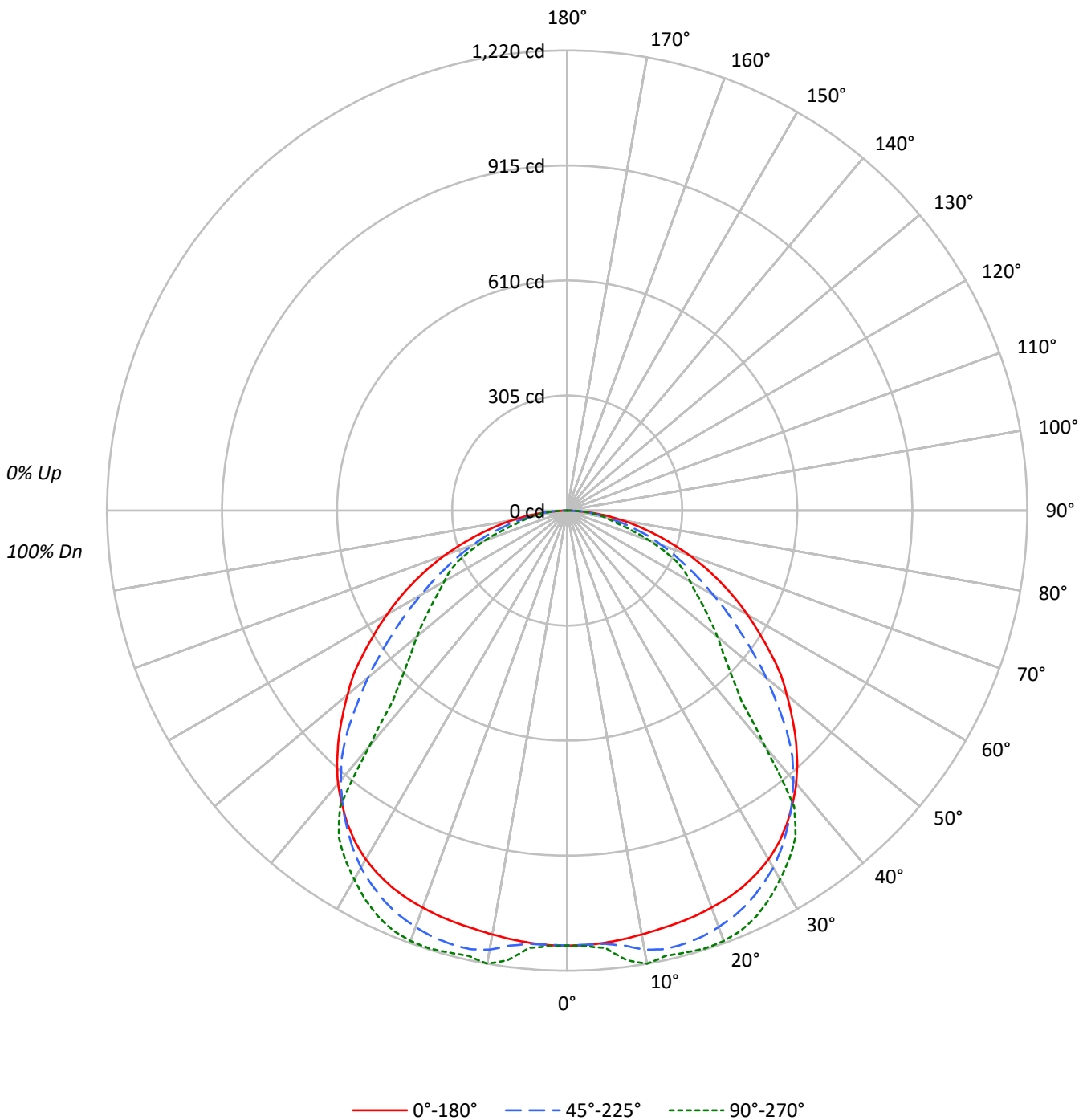
Input Watts (W): 26
Input Voltage (V): 120.1
Input Current (A_{in}): 0.217
Voltage Rise (V): NR
Power Factor: 0.9981
Total Harmonic Distortion (THDi): 6.14%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.9
Test Distance: 25 FT



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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	104	100	97	106	102	98	95	98	95	92	94	92	89	90	88	87	84
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	42	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3778	3778	3778
5°	3783	3793	3829
10°	3797	3933	4060
15°	3840	4037	4115
20°	3906	4098	4234
25°	3981	4136	4292
30°	4041	4136	4272
35°	4060	4080	4224
40°	4042	3991	3486
45°	3972	3809	2850
50°	3875	3513	2651
55°	3759	3199	2514
60°	3618	2936	2464
65°	3474	2706	2481
70°	3296	2549	2223
75°	3051	2330	1849
80°	2774	1981	1925
85°	2331	2068	1955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	3.3
10°-20°	334.0	10.0
20°-30°	527.0	15.8
30°-40°	638.3	19.2
40°-50°	600.4	18.0
50°-60°	494.3	14.8
60°-70°	361.3	10.9
70°-80°	201.0	6.0
80°-90°	61.7	1.9
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°	972.2	29.2
0°-40°	1610.5	48.4
0°-60°	2705.2	81.3
0°-90°	3329.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3329.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1150	1150	1153	1160	1164	109
15°	1132	1153	1190	1204	1213	320
25°	1101	1118	1144	1174	1187	508
35°	1015	1009	1020	1048	1056	634
45°	857	834	822	709	615	660
55°	658	629	560	464	440	589
65°	448	417	349	312	320	444
75°	241	218	184	152	146	256
85°	62	55	55	51	52	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153	1153	1153	1153	1153
2.5°	1153	1152	1152	1154	1156
5°	1150	1150	1153	1160	1164
7.5°	1146	1149	1163	1188	1202
10°	1141	1151	1182	1212	1220
12.5°	1136	1153	1191	1207	1209
15°	1132	1153	1190	1204	1213
17.5°	1127	1150	1185	1205	1217
20°	1120	1144	1175	1200	1214
22.5°	1112	1134	1162	1191	1205
25°	1101	1118	1144	1174	1187
27.5°	1086	1098	1120	1149	1161
30°	1068	1074	1093	1119	1129
32.5°	1044	1044	1059	1084	1096
35°	1015	1009	1020	1048	1056
37.5°	981	971	979	995	989
40°	945	927	933	900	815
42.5°	903	883	884	798	683
45°	857	834	822	709	615
47.5°	808	786	753	638	561
50°	760	735	689	571	520
52.5°	714	685	624	517	478
55°	658	629	560	464	440
57.5°	604	574	504	417	404
60°	552	522	448	381	376
62.5°	501	468	398	346	352
65°	448	417	349	312	320
67.5°	396	364	307	275	278
70°	344	312	266	235	232
72.5°	290	263	228	194	187
75°	241	218	184	152	146
77.5°	193	176	145	119	118
80°	147	135	105	100	102
82.5°	106	96	81	77	77
85°	62	55	55	51	52
87.5°	27	25	29	29	29
90°	0	0	0	0	0

(END OF REPORT)