

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: P35045

Luminaire Tested: **24EN-LD2-30HP-UNV-L835-CD1-U**

Test Date: 08/25/16

Test Information

Test Method: LM-79-08
Report Number: P35045
Test Lab: INNOVATION CENTER-P3
Test Date: 08/25/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-30HP-UNV-L835-CD1-U
Description: ENCOUNTER 2X4 LED TROFFER
Light Source: (308) EATON 3500K LEDS
EL236N077E835
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 500 mA
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3073.6 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.4 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

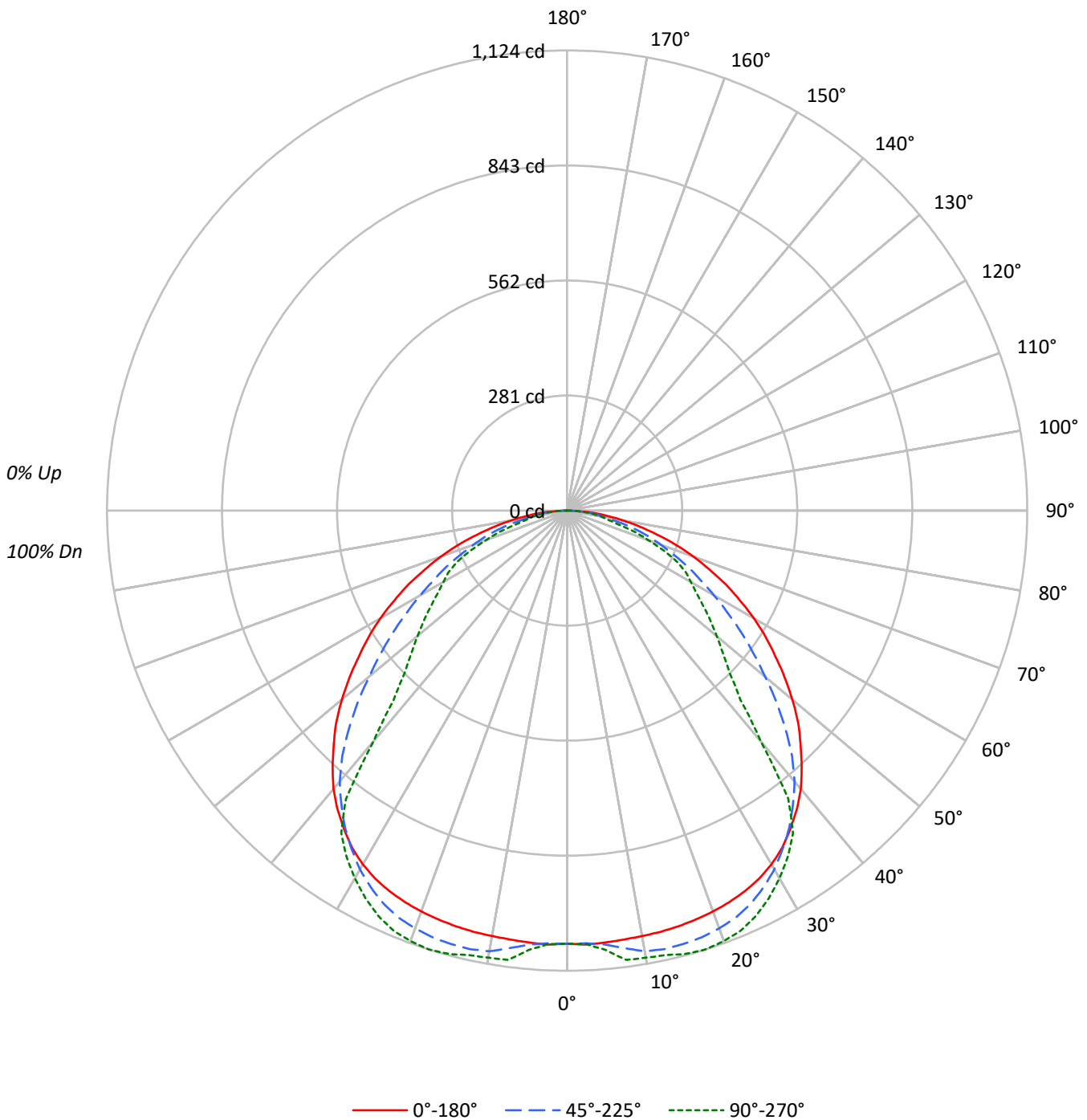
Input Watts (W): 22.2
Input Voltage (V): 120.0
Input Current (Ain): 0.186
Voltage Rise (V): NR
Power Factor: 0.9974
Total Harmonic Distortion (THDi): 7.52%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.6
Test Distance: 25 FT



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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	98	95	98	95	92	94	92	89	91	88	87	85
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	64	71	66	62	60
4	84	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°	1620	1620	1620
5°	1628	1636	1656
10°	1641	1700	1725
15°	1667	1738	1778
20°	1698	1770	1824
25°	1734	1791	1845
30°	1765	1790	1834
35°	1776	1769	1799
40°	1775	1727	1472
45°	1746	1633	1215
50°	1711	1504	1137
55°	1658	1386	1084
60°	1614	1268	1069
65°	1551	1181	1073
70°	1469	1088	945
75°	1349	988	757
80°	1217	803	750
85°	1142	791	721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.3
10°-20°	308.3	10.0
20°-30°	487.5	15.9
30°-40°	588.8	19.2
40°-50°	554.1	18.0
50°-60°	459.3	14.9
60°-70°	336.3	10.9
70°-80°	183.4	6.0
80°-90°	53.3	1.7
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°	898.2	29.2
0°-40°	1487.1	48.4
0°-60°	2500.5	81.4
0°-90°	3073.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3073.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1059	1058	1064	1069	1077	101
15°	1051	1066	1096	1109	1121	297
25°	1026	1038	1060	1081	1092	473
35°	950	938	946	957	962	594
45°	806	778	754	646	561	622
55°	621	588	519	428	406	557
65°	428	386	326	289	296	422
75°	228	202	167	135	128	243
85°	65	51	45	40	41	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058	1058	1058	1058	1058
2.5°	1061	1057	1058	1057	1060
5°	1059	1058	1064	1069	1077
7.5°	1057	1060	1078	1098	1107
10°	1055	1063	1093	1106	1109
12.5°	1054	1066	1097	1104	1112
15°	1051	1066	1096	1109	1121
17.5°	1047	1065	1093	1111	1124
20°	1042	1060	1086	1107	1119
22.5°	1035	1051	1076	1098	1110
25°	1026	1038	1060	1081	1092
27.5°	1014	1019	1038	1056	1067
30°	998	998	1012	1028	1037
32.5°	977	971	980	996	1003
35°	950	938	946	957	962
37.5°	921	903	906	901	887
40°	888	863	864	811	736
42.5°	848	822	813	722	627
45°	806	778	754	646	561
47.5°	765	732	694	581	516
50°	718	686	631	523	477
52.5°	670	638	574	473	441
55°	621	588	519	428	406
57.5°	575	537	465	388	374
60°	527	488	414	354	349
62.5°	476	438	367	322	327
65°	428	386	326	289	296
67.5°	376	339	282	255	255
70°	328	291	243	214	211
72.5°	279	244	207	177	172
75°	228	202	167	135	128
77.5°	182	163	127	101	100
80°	138	128	91	84	85
82.5°	99	89	69	63	63
85°	65	51	45	40	41
87.5°	23	22	21	20	22
90°	0	0	0	0	0

(END OF REPORT)