

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: P238883

Luminaire Tested: **24EN-LD2-34-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-34-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3682.2 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

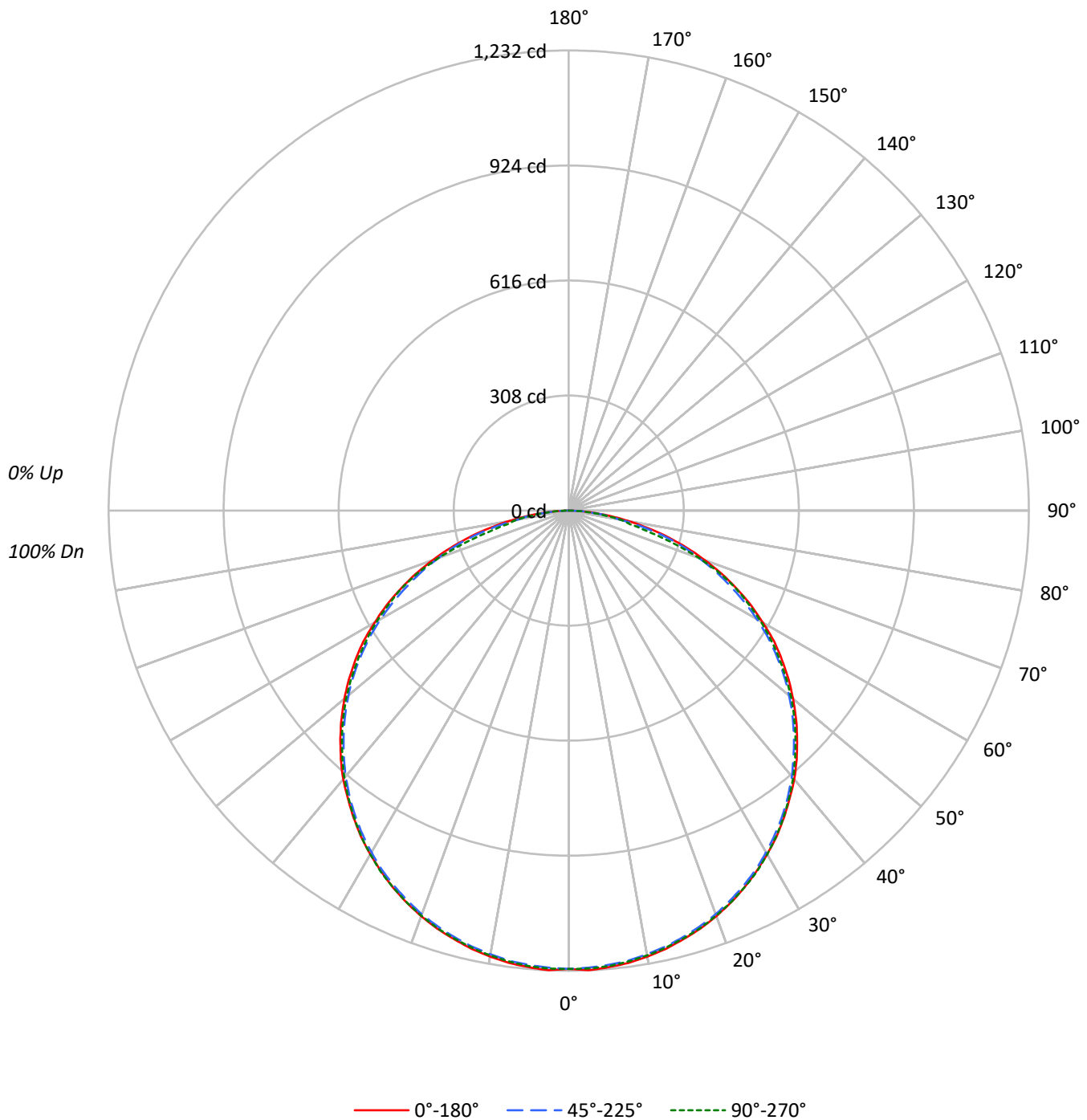
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	90	88			90
2	98	90	83	77	96	88	82	76		84	79	74			81	77	73			78
3	90	79	70	64	87	77	69	63		74	67	62			71	66	61			69
4	82	70	61	54	79	68	60	53		66	58	53			63	57	52			61
5	75	62	53	46	73	61	52	46		59	51	45			57	50	45			55
6	69	56	47	40	67	55	46	40		53	45	40			51	44	39			50
7	64	50	42	35	62	50	41	35		48	40	35			47	40	35			45
8	60	46	37	31	58	45	37	31		44	36	31			43	36	31			41
9	56	42	34	28	54	42	34	28		40	33	28			39	33	28			38
10	52	39	31	26	51	38	31	25		37	30	25			36	30	25			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1879	1879	1879
5°	1887	1877	1882
10°	1886	1876	1881
15°	1884	1875	1880
20°	1884	1875	1881
25°	1881	1872	1881
30°	1879	1868	1879
35°	1877	1864	1874
40°	1878	1858	1869
45°	1873	1847	1860
50°	1868	1835	1852
55°	1861	1816	1835
60°	1838	1782	1820
65°	1801	1726	1790
70°	1737	1664	1661
75°	1634	1562	1320
80°	1439	1222	1255
85°	1135	1068	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	3.2
10°-20°	334.3	9.1
20°-30°	511.5	13.9
30°-40°	625.2	17.0
40°-50°	660.7	17.9
50°-60°	612.2	16.6
60°-70°	479.6	13.0
70°-80°	271.1	7.4
80°-90°	71.4	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°	962.0	26.1
0°-40°	1587.3	43.1
0°-60°	2860.1	77.7
0°-90°	3682.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3682.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1227	1223	1221	1220	1224	117
15°	1188	1183	1182	1182	1186	336
25°	1113	1109	1108	1108	1113	513
35°	1004	999	997	997	1002	629
45°	865	859	852	852	859	667
55°	697	689	680	682	687	623
65°	497	488	476	482	494	491
75°	276	268	264	235	223	291
85°	65	61	61	58	56	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.1	1227.1	1227.1	1227.1	1227.1
2.5°	1231.8	1226.4	1224.8	1223.3	1227.1
5°	1227.1	1223.3	1221.0	1220.2	1224.1
7.5°	1221.8	1217.1	1215.6	1214.1	1217.9
10°	1212.5	1207.9	1206.4	1205.6	1209.4
12.5°	1201.8	1196.4	1195.6	1194.8	1198.7
15°	1187.9	1183.3	1182.5	1181.7	1185.6
17.5°	1173.3	1168.7	1167.1	1166.4	1171.7
20°	1155.6	1151.0	1150.2	1149.4	1154.1
22.5°	1135.6	1131.0	1129.4	1130.2	1134.8
25°	1113.3	1108.7	1107.9	1107.9	1113.3
27.5°	1088.7	1084.0	1084.0	1084.0	1090.2
30°	1062.5	1058.7	1056.3	1057.1	1062.5
32.5°	1035.6	1029.4	1027.9	1028.6	1034.0
35°	1004.0	999.4	997.1	997.1	1002.5
37.5°	971.7	967.1	964.0	964.0	969.4
40°	939.4	932.5	929.4	927.9	934.8
42.5°	903.2	897.9	890.9	890.9	897.1
45°	864.8	858.6	852.5	852.5	858.6
47.5°	825.5	819.4	812.5	812.5	818.6
50°	784.0	777.8	770.1	770.1	777.1
52.5°	741.7	734.7	726.3	725.5	732.4
55°	697.0	689.4	680.1	681.7	687.0
57.5°	651.7	641.7	632.4	632.4	640.9
60°	600.1	591.6	581.6	583.2	594.0
62.5°	550.9	540.1	530.1	533.9	543.2
65°	497.0	487.8	476.2	482.4	493.9
67.5°	443.9	433.9	424.7	432.4	437.8
70°	387.8	378.5	371.6	371.6	370.8
72.5°	331.6	323.1	321.6	307.0	297.7
75°	276.2	268.5	263.9	235.4	223.1
77.5°	218.5	216.2	201.6	171.6	167.7
80°	163.1	164.6	138.5	139.3	142.3
82.5°	112.3	110.0	103.9	99.2	97.7
85°	64.6	60.8	60.8	57.7	56.2
87.5°	21.5	23.9	23.9	23.9	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)