

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: P238829

Luminaire Tested: **22EN-LD2-19-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-118-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-19-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1752.3 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

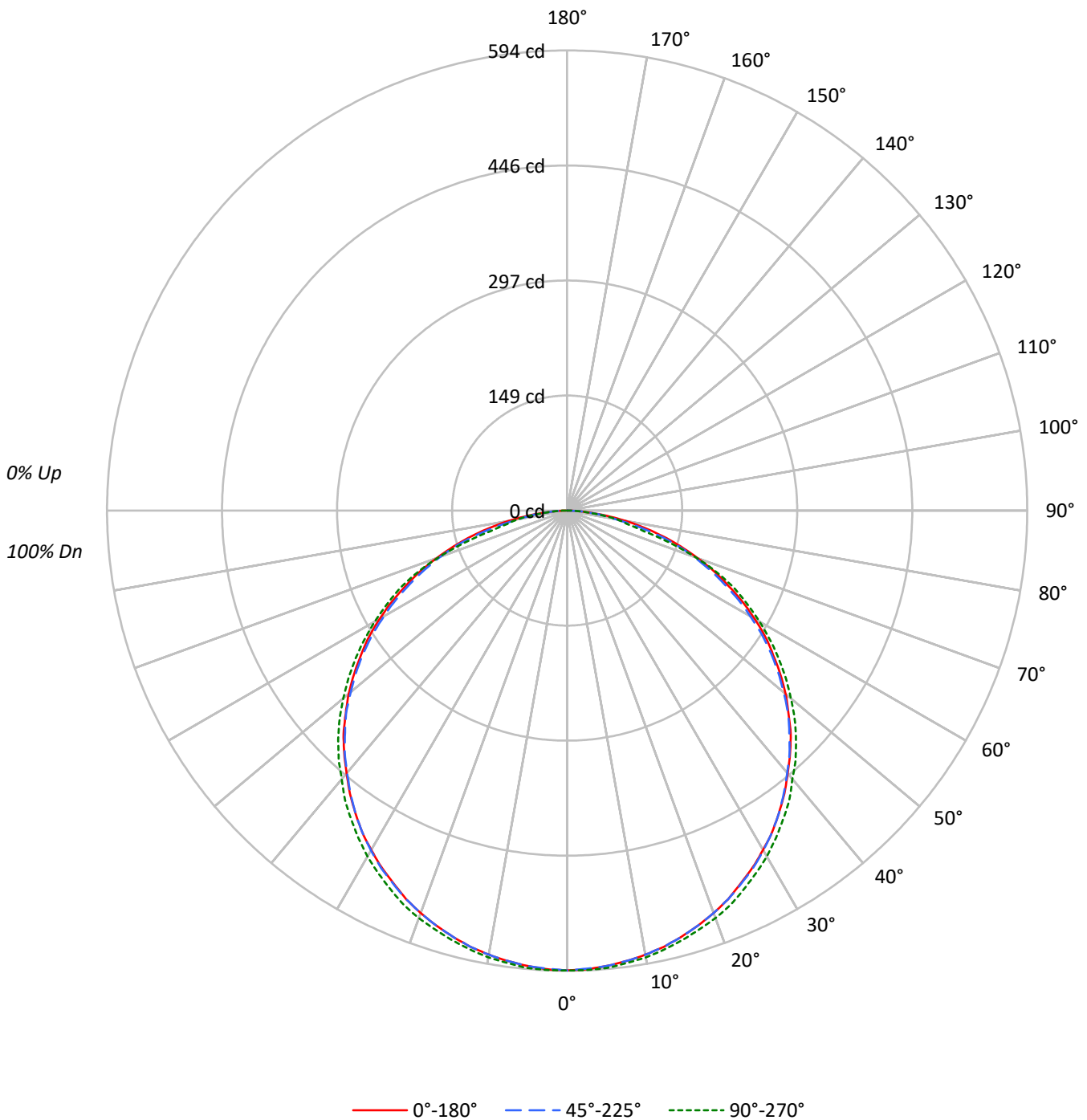
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1901	1901	1901
5°	1897	1897	1905
10°	1893	1893	1904
15°	1888	1888	1903
20°	1884	1884	1908
25°	1875	1878	1906
30°	1870	1873	1906
35°	1863	1863	1901
40°	1851	1847	1892
45°	1849	1837	1893
50°	1834	1817	1879
55°	1813	1793	1863
60°	1790	1750	1836
65°	1741	1694	1809
70°	1678	1628	1654
75°	1581	1482	1262
80°	1391	1162	1212
85°	1010	977	944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	3.2
10°-20°	161.1	9.2
20°-30°	246.0	14.0
30°-40°	299.6	17.1
40°-50°	315.4	18.0
50°-60°	290.4	16.6
60°-70°	226.0	12.9
70°-80°	125.5	7.2
80°-90°	32.2	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°	463.3	26.4
0°-40°	762.9	43.5
0°-60°	1368.6	78.1
0°-90°	1752.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	594	594	594	594	594	
5°	590	590	590	592	593	56
15°	570	570	570	572	574	161
25°	531	532	532	536	540	245
35°	476	476	476	482	486	298
45°	408	406	406	412	418	314
55°	325	324	321	326	334	291
65°	230	227	224	231	239	228
75°	128	125	120	106	102	135
85°	28	26	27	26	26	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	593.6	593.6	593.6	593.6	593.6
2.5°	592.7	591.8	591.8	593.6	593.6
5°	590.0	590.0	590.0	591.8	592.7
7.5°	586.5	586.5	586.5	589.2	589.2
10°	582.1	581.2	582.1	583.8	585.6
12.5°	576.7	575.9	576.7	578.5	580.3
15°	569.6	569.6	569.6	572.3	574.1
17.5°	561.7	560.8	561.7	564.3	567.0
20°	552.8	552.8	552.8	556.3	559.9
22.5°	543.0	542.1	543.0	547.5	551.0
25°	530.6	531.5	531.5	535.9	539.5
27.5°	519.1	518.2	520.0	523.5	527.9
30°	505.8	505.8	506.6	511.1	515.5
32.5°	492.4	491.6	492.4	496.9	501.3
35°	476.5	476.5	476.5	481.8	486.2
37.5°	460.5	459.6	459.6	464.9	471.2
40°	442.8	441.9	441.9	448.1	452.5
42.5°	425.9	425.0	425.0	430.3	436.5
45°	408.2	405.5	405.5	411.7	417.9
47.5°	387.7	386.0	386.9	392.2	398.4
50°	368.2	365.6	364.7	370.9	377.1
52.5°	346.9	346.0	343.4	348.7	355.8
55°	324.7	323.9	321.2	326.5	333.6
57.5°	303.5	300.8	298.1	302.6	310.6
60°	279.5	276.8	273.3	279.5	286.6
62.5°	255.5	252.0	249.3	254.7	262.6
65°	229.8	227.1	223.6	230.7	238.7
67.5°	205.9	203.2	198.8	205.0	210.3
70°	179.2	175.7	173.9	174.8	176.6
72.5°	153.5	151.7	149.1	142.0	140.2
75°	127.8	125.1	119.8	106.5	102.0
77.5°	102.0	100.3	90.5	79.0	79.0
80°	75.4	74.5	63.0	64.8	65.7
82.5°	51.5	49.7	46.1	45.3	45.3
85°	27.5	25.7	26.6	25.7	25.7
87.5°	10.6	10.6	11.5	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)