

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: P238781

Luminaire Tested: **22EN-LD2-19-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238781
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-L830-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2028.1 lumens
Efficiency: N/A
Efficacy: 122.9 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

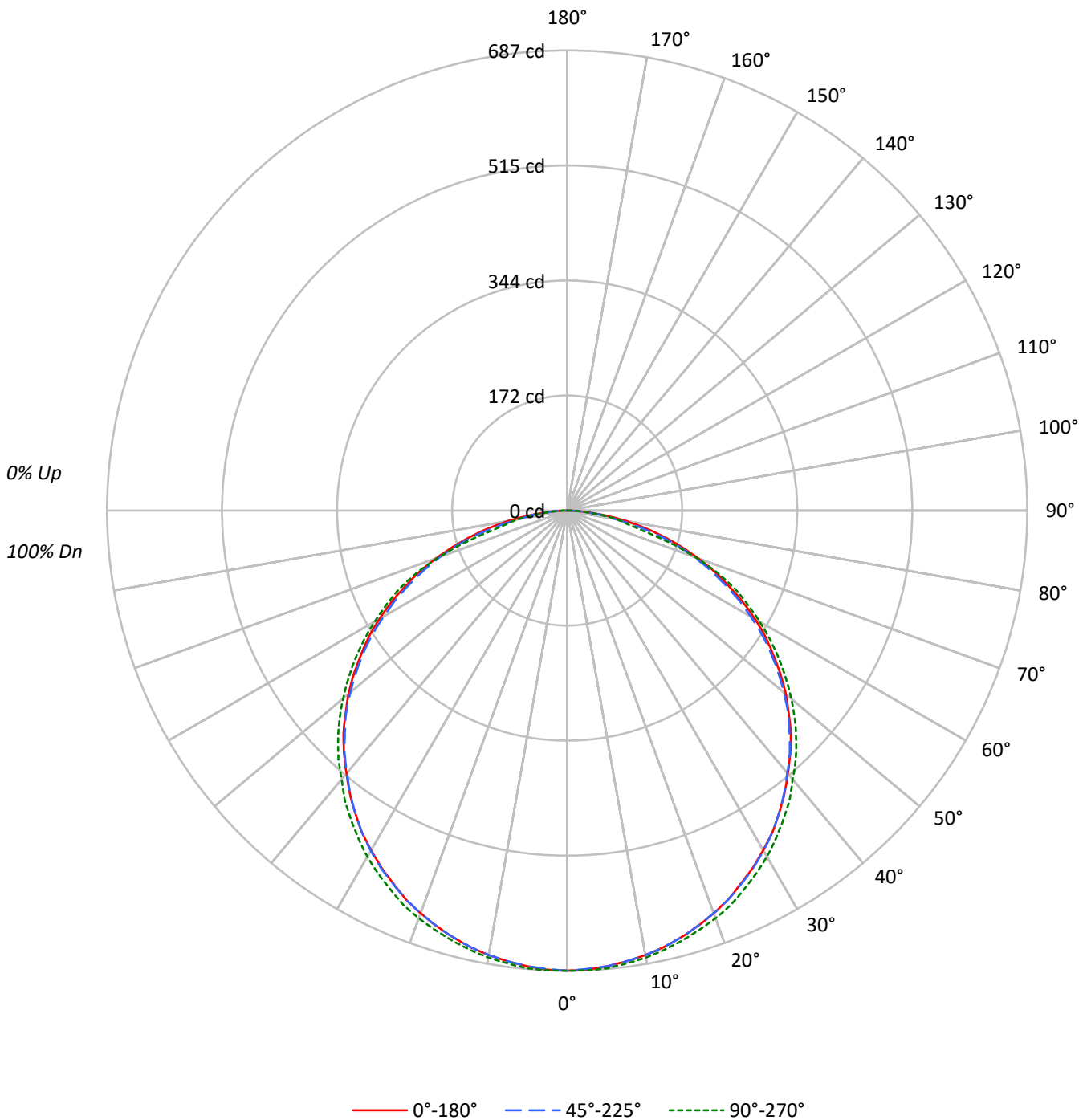
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2200	2200	2200
5°	2195	2195	2205
10°	2191	2191	2204
15°	2186	2186	2203
20°	2180	2180	2208
25°	2170	2173	2206
30°	2165	2168	2207
35°	2156	2156	2200
40°	2143	2138	2189
45°	2140	2125	2191
50°	2123	2103	2175
55°	2099	2076	2156
60°	2072	2026	2125
65°	2016	1961	2094
70°	1942	1885	1914
75°	1830	1715	1461
80°	1610	1344	1402
85°	1168	1132	1095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	3.2
10°-20°	186.5	9.2
20°-30°	284.7	14.0
30°-40°	346.8	17.1
40°-50°	365.0	18.0
50°-60°	336.1	16.6
60°-70°	261.6	12.9
70°-80°	145.2	7.2
80°-90°	37.3	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°	536.2	26.4
0°-40°	882.9	43.5
0°-60°	1584.0	78.1
0°-90°	2028.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2028.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	683	683	683	685	686	65
15°	659	659	659	662	664	186
25°	614	615	615	620	624	283
35°	552	552	552	558	563	345
45°	472	469	469	476	484	364
55°	376	375	372	378	386	336
65°	266	263	259	267	276	264
75°	148	145	139	123	118	156
85°	32	30	31	30	30	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.0	687.0	687.0	687.0	687.0
2.5°	686.0	685.0	685.0	687.0	687.0
5°	682.9	682.9	682.9	685.0	686.0
7.5°	678.8	678.8	678.8	681.9	681.9
10°	673.7	672.7	673.7	675.7	677.8
12.5°	667.5	666.5	667.5	669.6	671.6
15°	659.3	659.3	659.3	662.4	664.4
17.5°	650.1	649.0	650.1	653.1	656.2
20°	639.8	639.8	639.8	643.9	648.0
22.5°	628.5	627.5	628.5	633.6	637.7
25°	614.1	615.1	615.1	620.3	624.4
27.5°	600.8	599.7	601.8	605.9	611.0
30°	585.4	585.4	586.4	591.5	596.7
32.5°	570.0	568.9	570.0	575.1	580.2
35°	551.5	551.5	551.5	557.6	562.8
37.5°	533.0	532.0	532.0	538.1	545.3
40°	512.5	511.4	511.4	518.6	523.7
42.5°	492.9	491.9	491.9	498.1	505.3
45°	472.4	469.3	469.3	476.5	483.7
47.5°	448.8	446.7	447.8	453.9	461.1
50°	426.2	423.1	422.1	429.3	436.5
52.5°	401.5	400.5	397.4	403.6	411.8
55°	375.9	374.8	371.8	377.9	386.1
57.5°	351.2	348.1	345.1	350.2	359.4
60°	323.5	320.4	316.3	323.5	331.7
62.5°	295.8	291.7	288.6	294.7	304.0
65°	266.0	262.9	258.8	267.0	276.3
67.5°	238.3	235.2	230.0	237.2	243.4
70°	207.4	203.3	201.3	202.3	204.4
72.5°	177.7	175.6	172.5	164.3	162.3
75°	147.9	144.8	138.6	123.2	118.1
77.5°	118.1	116.0	104.7	91.4	91.4
80°	87.3	86.3	72.9	75.0	76.0
82.5°	59.6	57.5	53.4	52.4	52.4
85°	31.8	29.8	30.8	29.8	29.8
87.5°	12.3	12.3	13.4	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)