

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: P238808

Luminaire Tested: **22ENA-LD2-19-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238808
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: 22ENA-LD2-19-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2262.6 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 1.83' x H: 0')
CIE Type: Direct

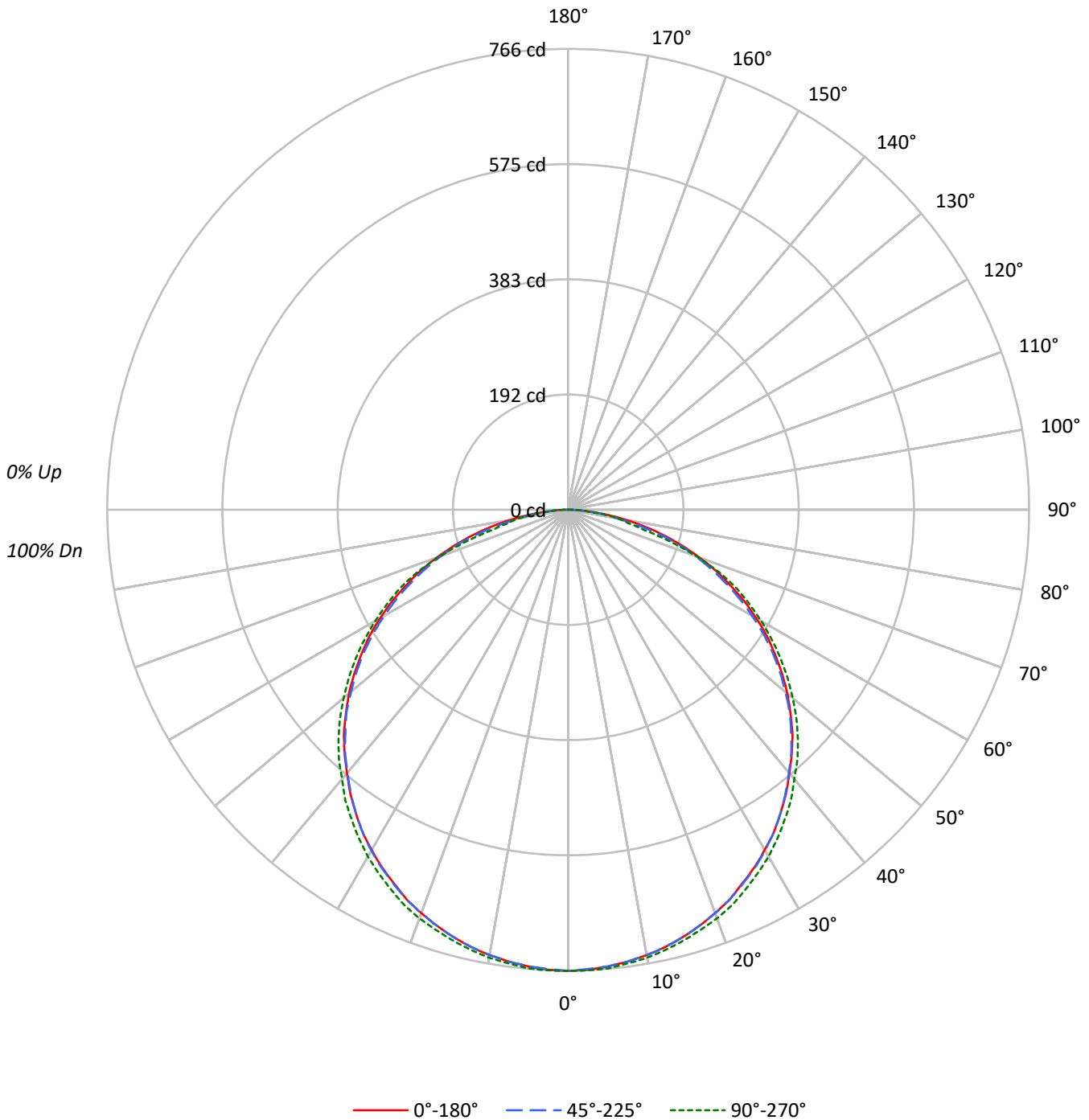
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2700	2700	2700
5°	2694	2694	2706
10°	2689	2689	2705
15°	2682	2682	2704
20°	2676	2676	2710
25°	2663	2668	2708
30°	2657	2661	2708
35°	2646	2646	2700
40°	2629	2624	2687
45°	2625	2609	2688
50°	2606	2581	2668
55°	2575	2547	2646
60°	2543	2486	2608
65°	2473	2406	2569
70°	2383	2313	2348
75°	2246	2106	1794
80°	1976	1649	1720
85°	1435	1390	1342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	3.2
10°-20°	208.1	9.2
20°-30°	317.6	14.0
30°-40°	386.9	17.1
40°-50°	407.2	18.0
50°-60°	374.9	16.6
60°-70°	291.8	12.9
70°-80°	162.0	7.2
80°-90°	41.6	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°	598.2	26.4
0°-40°	985.1	43.5
0°-60°	1767.2	78.1
0°-90°	2262.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2262.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	762	762	762	764	765	72
15°	736	736	736	739	741	208
25°	685	686	686	692	697	316
35°	615	615	615	622	628	385
45°	527	524	524	532	540	406
55°	419	418	415	422	431	375
65°	297	293	289	298	308	294
75°	165	162	155	138	132	174
85°	36	33	34	33	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.5	766.5	766.5	766.5	766.5
2.5°	765.3	764.2	764.2	766.5	766.5
5°	761.9	761.9	761.9	764.2	765.3
7.5°	757.3	757.3	757.3	760.7	760.7
10°	751.6	750.4	751.6	753.9	756.2
12.5°	744.7	743.6	744.7	747.0	749.3
15°	735.5	735.5	735.5	739.0	741.3
17.5°	725.2	724.1	725.2	728.7	732.1
20°	713.8	713.8	713.8	718.4	722.9
22.5°	701.2	700.0	701.2	706.9	711.5
25°	685.1	686.3	686.3	692.0	696.6
27.5°	670.2	669.1	671.4	676.0	681.7
30°	653.1	653.1	654.2	659.9	665.7
32.5°	635.9	634.7	635.9	641.6	647.3
35°	615.2	615.2	615.2	622.1	627.8
37.5°	594.6	593.5	593.5	600.3	608.4
40°	571.7	570.6	570.6	578.6	584.3
42.5°	549.9	548.8	548.8	555.7	563.7
45°	527.0	523.6	523.6	531.6	539.6
47.5°	500.7	498.4	499.5	506.4	514.4
50°	475.5	472.0	470.9	478.9	486.9
52.5°	448.0	446.8	443.4	450.3	459.4
55°	419.3	418.2	414.7	421.6	430.8
57.5°	391.8	388.4	385.0	390.7	401.0
60°	360.9	357.5	352.9	360.9	370.1
62.5°	330.0	325.4	321.9	328.8	339.1
65°	296.7	293.3	288.7	297.9	308.2
67.5°	265.8	262.4	256.6	264.7	271.5
70°	231.4	226.8	224.6	225.7	228.0
72.5°	198.2	195.9	192.5	183.3	181.0
75°	165.0	161.5	154.7	137.5	131.8
77.5°	131.8	129.5	116.9	102.0	102.0
80°	97.4	96.2	81.3	83.6	84.8
82.5°	66.5	64.2	59.6	58.4	58.4
85°	35.5	33.2	34.4	33.2	33.2
87.5°	13.7	13.7	14.9	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)