

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: P184032

Luminaire Tested: **12EN-LD2-13-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34514)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-13-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1304.6 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

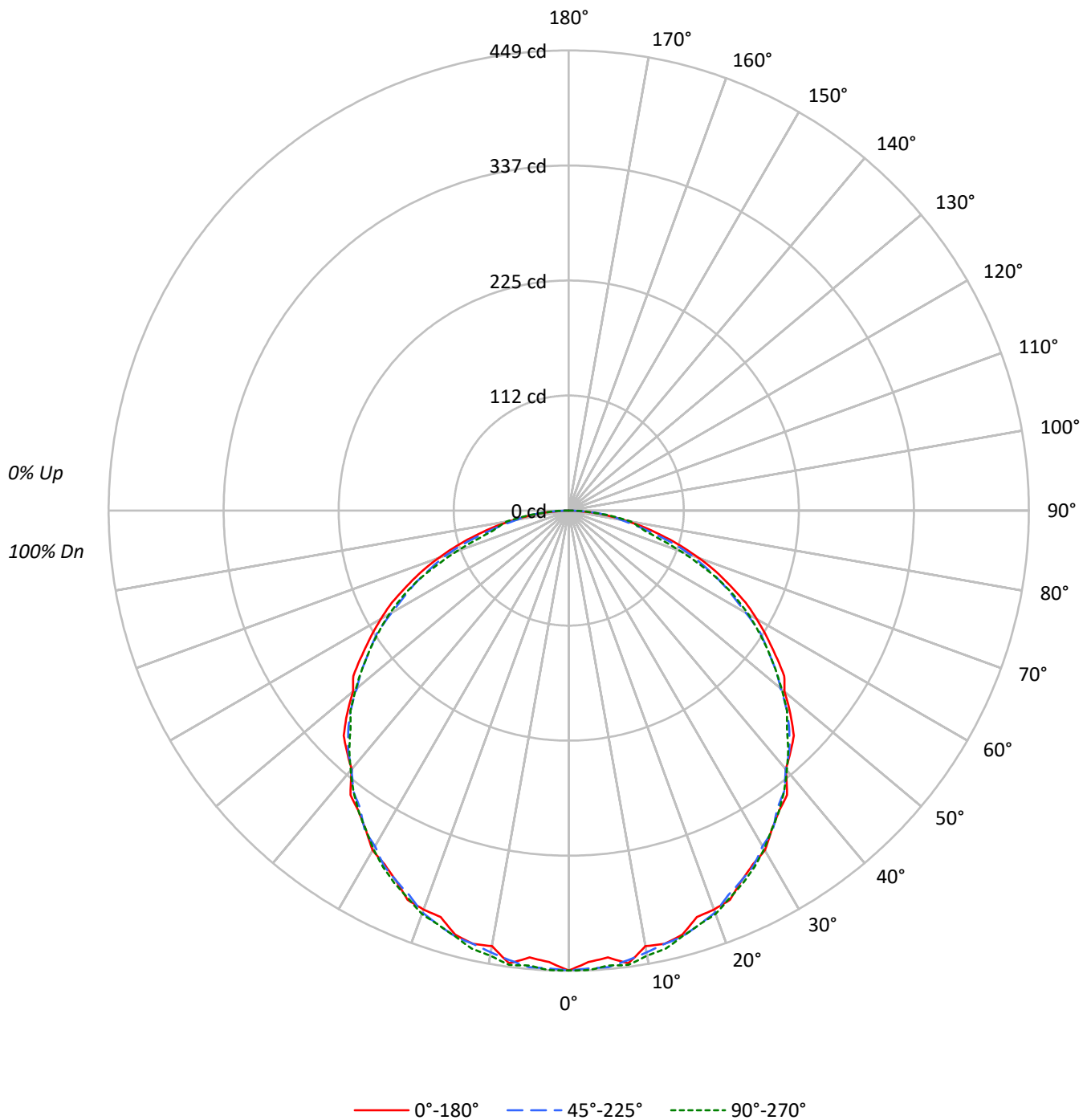
Input Watts (W): 12.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	52	46		57	50	45		43
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		29
9	56	42	34	29	55	42	34	28	41	33	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2415	2415	2415
5°	2365	2415	2407
10°	2358	2392	2410
15°	2386	2395	2395
20°	2372	2390	2399
25°	2366	2366	2385
30°	2379	2350	2369
35°	2350	2330	2350
40°	2315	2315	2325
45°	2364	2317	2293
50°	2299	2260	2272
55°	2311	2223	2223
60°	2280	2145	2179
65°	2217	2078	2078
70°	2123	2000	1827
75°	1957	1761	1599
80°	1751	1605	1897
85°	1451	1649	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	3.3
10°-20°	121.2	9.3
20°-30°	184.4	14.1
30°-40°	223.4	17.1
40°-50°	234.3	18.0
50°-60°	214.3	16.4
60°-70°	163.8	12.6
70°-80°	92.1	7.1
80°-90°	28.7	2.2
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°	348.0	26.7
0°-40°	571.4	43.8
0°-60°	1020.0	78.2
0°-90°	1304.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1304.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	449	449	449	449	449	
5°	438	446	447	450	446	42
15°	428	428	430	430	430	120
25°	398	400	398	402	402	184
35°	358	356	355	358	358	224
45°	311	306	304	301	301	237
55°	246	243	237	237	237	220
65°	174	169	163	162	163	173
75°	94	91	85	78	77	100
85°	24	24	27	25	25	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	448.7	448.7	448.7	448.7	448.7
2.5°	440.9	447.1	447.1	450.3	448.7
5°	437.7	445.6	447.1	450.3	445.6
7.5°	445.6	444.0	442.4	445.6	447.1
10°	431.5	437.7	437.7	445.6	440.9
12.5°	433.0	434.6	433.0	433.0	437.7
15°	428.3	428.3	429.9	429.9	429.9
17.5°	415.8	422.0	423.6	425.2	423.6
20°	414.2	415.8	417.3	418.9	418.9
22.5°	411.1	407.9	406.3	412.6	409.5
25°	398.5	400.1	398.5	401.6	401.6
27.5°	389.1	389.1	390.7	389.1	392.2
30°	382.8	381.2	378.1	381.2	381.2
32.5°	368.7	370.3	370.3	368.7	368.7
35°	357.7	356.1	354.6	357.7	357.7
37.5°	349.9	342.0	345.2	343.6	345.2
40°	329.5	334.2	329.5	329.5	331.0
42.5°	320.1	318.5	318.5	316.9	316.9
45°	310.6	305.9	304.4	301.2	301.2
47.5°	293.4	293.4	288.7	285.5	288.7
50°	274.6	276.1	269.9	268.3	271.4
52.5°	265.1	260.4	254.2	255.7	254.2
55°	246.3	243.2	236.9	236.9	236.9
57.5°	229.1	227.5	221.2	219.6	219.6
60°	211.8	208.7	199.3	200.8	202.4
62.5°	194.5	189.8	180.4	183.6	183.6
65°	174.1	169.4	163.2	161.6	163.2
67.5°	155.3	149.0	144.3	142.8	139.6
70°	134.9	131.8	127.1	117.7	116.1
72.5°	114.5	109.8	106.7	95.7	94.1
75°	94.1	91.0	84.7	78.4	76.9
77.5°	75.3	73.7	65.9	65.9	69.0
80°	56.5	54.9	51.8	58.0	61.2
82.5°	39.2	37.7	42.4	43.9	43.9
85°	23.5	23.5	26.7	25.1	25.1
87.5°	9.4	11.0	11.0	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)