

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: P238833

Luminaire Tested: **22EN-LD2-25-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238833
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-LD2-25-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: 2219.4 lumens
Efficiency: N/A
Efficacy: 111.0 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

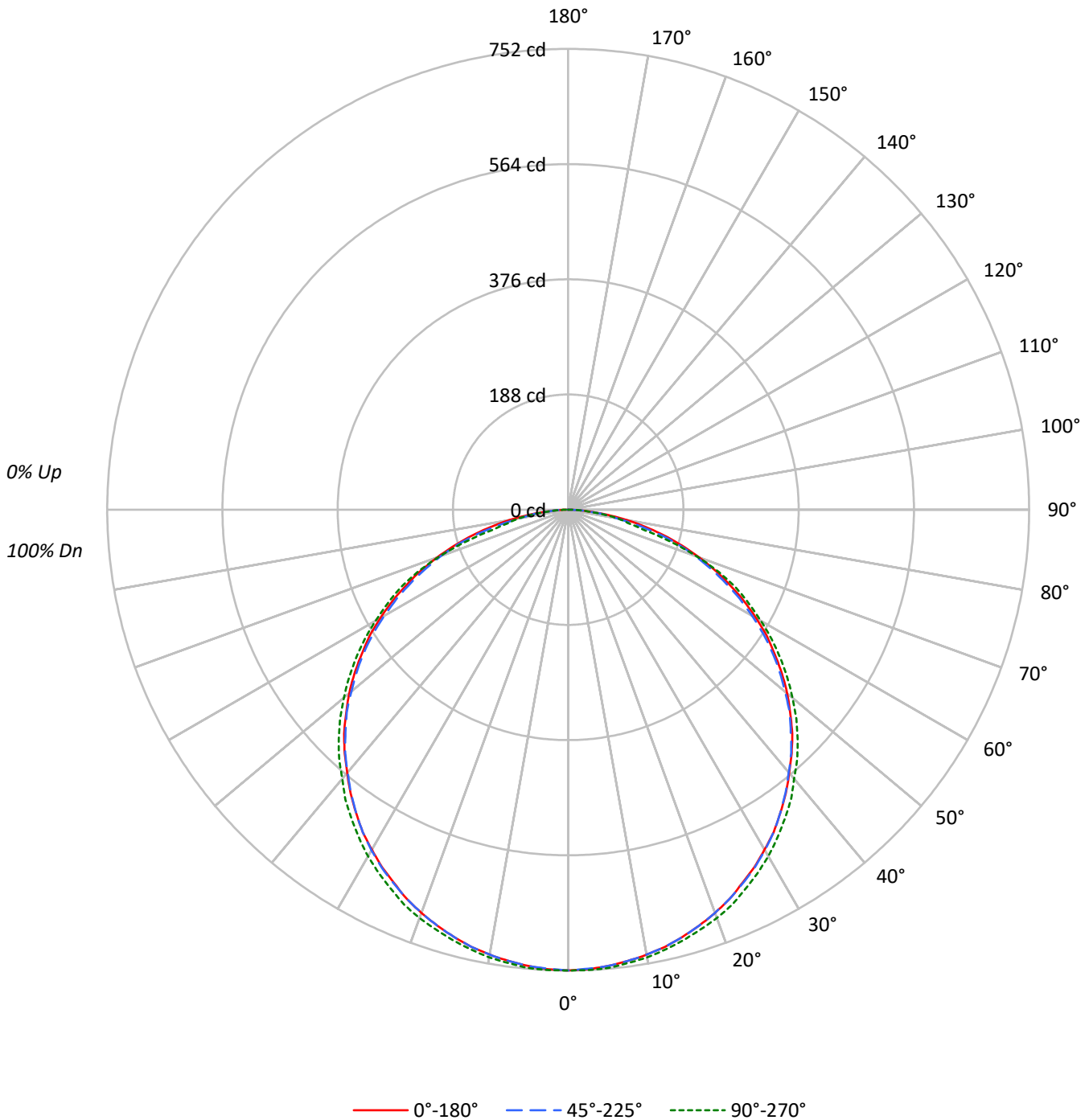
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2408	2408	2408
5°	2403	2403	2413
10°	2398	2398	2412
15°	2392	2392	2411
20°	2386	2386	2417
25°	2375	2379	2414
30°	2369	2373	2415
35°	2359	2359	2408
40°	2344	2340	2396
45°	2341	2326	2397
50°	2324	2301	2379
55°	2296	2271	2360
60°	2267	2217	2325
65°	2206	2146	2291
70°	2126	2063	2095
75°	2002	1877	1599
80°	1761	1472	1534
85°	1279	1238	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.2
10°-20°	204.1	9.2
20°-30°	311.6	14.0
30°-40°	379.5	17.1
40°-50°	399.4	18.0
50°-60°	367.8	16.6
60°-70°	286.3	12.9
70°-80°	158.9	7.2
80°-90°	40.8	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°	586.8	26.4
0°-40°	966.3	43.5
0°-60°	1733.5	78.1
0°-90°	2219.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2219.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	747	747	747	750	751	71
15°	722	722	722	725	727	204
25°	672	673	673	679	683	310
35°	604	604	604	610	616	378
45°	517	514	514	522	529	398
55°	411	410	407	414	423	368
65°	291	288	283	292	302	289
75°	162	158	152	135	129	171
85°	35	33	34	33	33	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	751.9	751.9	751.9	751.9	751.9
2.5°	750.7	749.6	749.6	751.9	751.9
5°	747.4	747.4	747.4	749.6	750.7
7.5°	742.9	742.9	742.9	746.2	746.2
10°	737.3	736.1	737.3	739.5	741.8
12.5°	730.5	729.4	730.5	732.8	735.0
15°	721.5	721.5	721.5	724.9	727.1
17.5°	711.4	710.3	711.4	714.8	718.2
20°	700.2	700.2	700.2	704.7	709.2
22.5°	687.8	686.7	687.8	693.4	697.9
25°	672.1	673.2	673.2	678.8	683.3
27.5°	657.5	656.3	658.6	663.1	668.7
30°	640.6	640.6	641.7	647.3	653.0
32.5°	623.7	622.6	623.7	629.4	635.0
35°	603.5	603.5	603.5	610.3	615.9
37.5°	583.3	582.2	582.2	588.9	596.8
40°	560.8	559.7	559.7	567.6	573.2
42.5°	539.5	538.3	538.3	545.1	552.9
45°	517.0	513.6	513.6	521.5	529.3
47.5°	491.1	488.9	490.0	496.8	504.6
50°	466.4	463.0	461.9	469.8	477.6
52.5°	439.4	438.3	434.9	441.7	450.7
55°	411.3	410.2	406.8	413.6	422.6
57.5°	384.4	381.0	377.6	383.2	393.4
60°	354.0	350.6	346.2	354.0	363.0
62.5°	323.7	319.2	315.8	322.6	332.7
65°	291.1	287.7	283.2	292.2	302.3
67.5°	260.7	257.4	251.7	259.6	266.4
70°	227.0	222.5	220.3	221.4	223.7
72.5°	194.4	192.2	188.8	179.8	177.6
75°	161.8	158.5	151.7	134.9	129.2
77.5°	129.2	127.0	114.6	100.0	100.0
80°	95.5	94.4	79.8	82.0	83.2
82.5°	65.2	62.9	58.4	57.3	57.3
85°	34.8	32.6	33.7	32.6	32.6
87.5°	13.5	13.5	14.6	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)