

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: P238789

Luminaire Tested: **22EN-LD2-30-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238789
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-LD2-30-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: 2984.9 lumens
Efficiency: N/A
Efficacy: 119.9 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

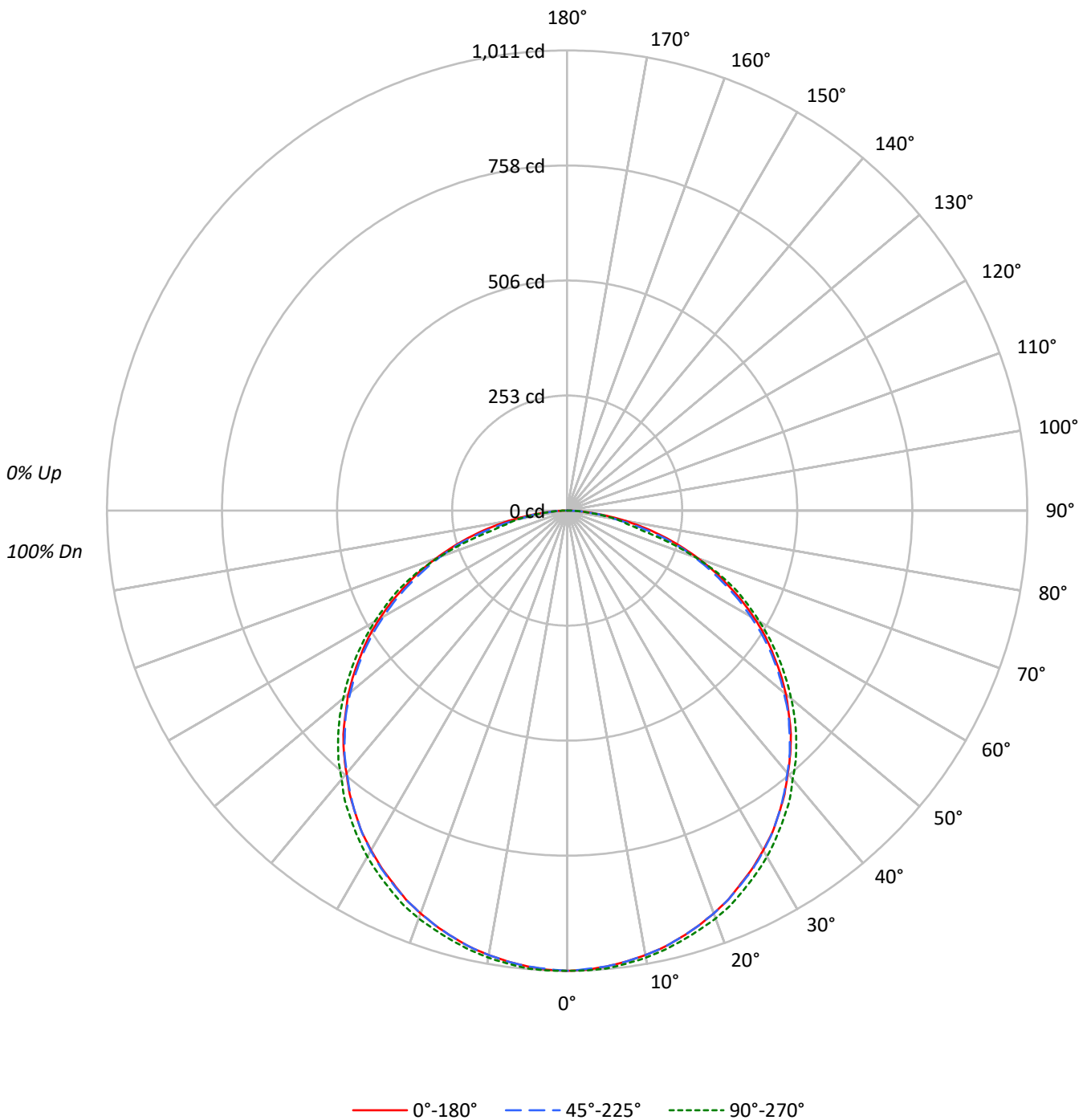
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3238	3238	3238
5°	3231	3231	3246
10°	3224	3224	3244
15°	3217	3217	3242
20°	3209	3209	3250
25°	3194	3199	3247
30°	3186	3192	3248
35°	3173	3173	3238
40°	3153	3147	3223
45°	3149	3128	3224
50°	3125	3095	3201
55°	3089	3055	3173
60°	3049	2982	3127
65°	2967	2886	3081
70°	2859	2774	2817
75°	2694	2525	2151
80°	2370	1979	2062
85°	1723	1665	1609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	3.2
10°-20°	274.5	9.2
20°-30°	419.0	14.0
30°-40°	510.4	17.1
40°-50°	537.2	18.0
50°-60°	494.6	16.6
60°-70°	385.0	12.9
70°-80°	213.7	7.2
80°-90°	54.9	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°	789.2	26.4
0°-40°	1299.5	43.5
0°-60°	2331.4	78.1
0°-90°	2984.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2984.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1005	1005	1005	1008	1010	96
15°	970	970	970	975	978	274
25°	904	905	905	913	919	417
35°	812	812	812	821	828	508
45°	695	691	691	701	712	535
55°	553	552	547	556	568	495
65°	392	387	381	393	407	388
75°	218	213	204	181	174	229
85°	47	44	45	44	44	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.2	1011.2	1011.2	1011.2	1011.2
2.5°	1009.7	1008.2	1008.2	1011.2	1011.2
5°	1005.1	1005.1	1005.1	1008.2	1009.7
7.5°	999.1	999.1	999.1	1003.6	1003.6
10°	991.5	990.0	991.5	994.6	997.6
12.5°	982.5	981.0	982.5	985.5	988.5
15°	970.4	970.4	970.4	974.9	977.9
17.5°	956.8	955.3	956.8	961.3	965.8
20°	941.7	941.7	941.7	947.7	953.7
22.5°	925.0	923.5	925.0	932.6	938.6
25°	903.9	905.4	905.4	912.9	919.0
27.5°	884.2	882.7	885.7	891.8	899.3
30°	861.5	861.5	863.1	870.6	878.2
32.5°	838.9	837.4	838.9	846.4	854.0
35°	811.7	811.7	811.7	820.7	828.3
37.5°	784.5	782.9	782.9	792.0	802.6
40°	754.2	752.7	752.7	763.3	770.9
42.5°	725.5	724.0	724.0	733.1	743.7
45°	695.3	690.7	690.7	701.3	711.9
47.5°	660.5	657.5	659.0	668.1	678.7
50°	627.3	622.7	621.2	631.8	642.4
52.5°	591.0	589.5	584.9	594.0	606.1
55°	553.2	551.7	547.2	556.2	568.3
57.5°	516.9	512.4	507.9	515.4	529.0
60°	476.1	471.6	465.5	476.1	488.2
62.5°	435.3	429.3	424.7	433.8	447.4
65°	391.5	386.9	380.9	393.0	406.6
67.5°	350.7	346.1	338.6	349.2	358.2
70°	305.3	299.3	296.3	297.8	300.8
72.5°	261.5	258.5	253.9	241.8	238.8
75°	217.7	213.1	204.1	181.4	173.8
77.5°	173.8	170.8	154.2	134.5	134.5
80°	128.5	127.0	107.3	110.3	111.8
82.5°	87.7	84.6	78.6	77.1	77.1
85°	46.9	43.8	45.3	43.8	43.8
87.5°	18.1	18.1	19.6	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)