

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: P225578

Luminaire Tested: **22AC-LD5-23-UNV-L830-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P225578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35761)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-23-UNV-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

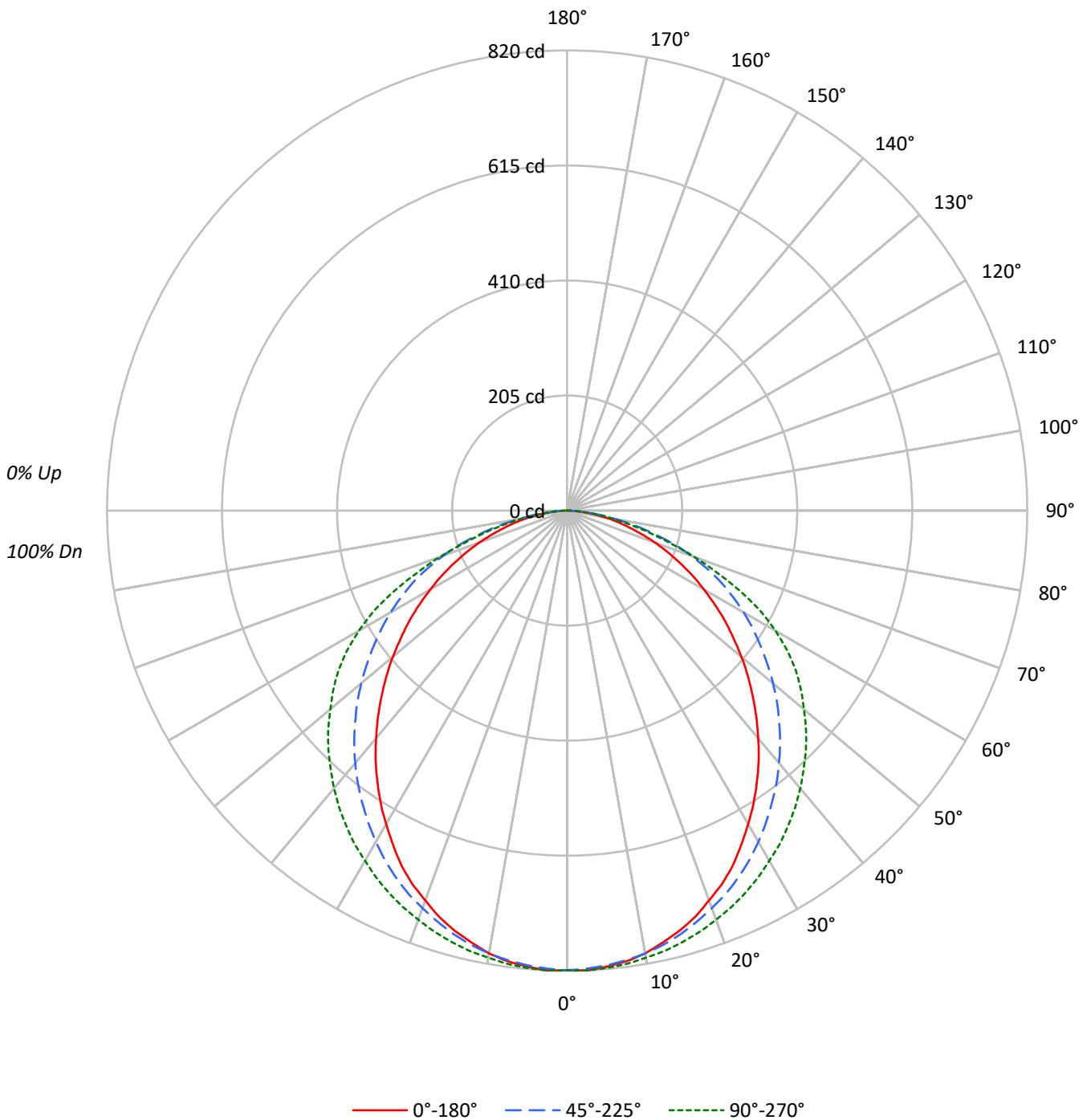
Lumens per Lamp: N/A
Luminaire Lumens: 2300.8 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.52
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	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2204	2204	2204
5°	2204	2197	2210
10°	2190	2190	2211
15°	2159	2177	2217
20°	2117	2158	2222
25°	2073	2143	2231
30°	2005	2118	2238
35°	1937	2090	2254
40°	1861	2063	2270
45°	1780	2033	2290
50°	1698	2004	2306
55°	1612	1976	2335
60°	1515	1956	2308
65°	1419	1927	2174
70°	1308	1849	1892
75°	1176	1659	1567
80°	1013	1375	1271
85°	787	923	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	3.4
10°-20°	221.0	9.6
20°-30°	333.0	14.5
30°-40°	398.7	17.3
40°-50°	412.4	17.9
50°-60°	376.6	16.4
60°-70°	288.2	12.5
70°-80°	156.7	6.8
80°-90°	36.6	1.6
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°	631.5	27.4
0°-40°	1030.2	44.8
0°-60°	1819.2	79.1
0°-90°	2300.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	816	815	814	816	818	77
15°	775	776	781	790	796	218
25°	698	704	722	742	752	321
35°	590	603	636	671	686	369
45°	468	487	534	582	602	361
55°	344	370	421	477	498	307
65°	223	248	303	337	341	221
75°	113	140	160	156	151	121
85°	26	29	30	29	29	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.1	819.1	819.1	819.1	819.1
2.5°	820.2	818.0	816.9	819.1	820.2
5°	815.8	814.7	813.5	815.8	818.0
7.5°	810.2	808.0	808.0	812.4	814.7
10°	801.4	799.1	801.4	806.9	809.1
12.5°	788.1	789.2	792.5	800.2	803.6
15°	774.8	775.9	781.4	790.3	795.8
17.5°	759.2	761.5	768.1	781.4	786.9
20°	739.3	742.6	753.7	769.2	775.9
22.5°	720.4	723.8	739.3	757.0	764.8
25°	698.3	703.8	721.6	741.5	751.5
27.5°	671.7	681.7	702.7	726.0	737.1
30°	645.1	656.2	681.7	709.4	720.4
32.5°	618.5	629.6	659.5	691.6	704.9
35°	589.7	603.0	636.2	670.6	686.1
37.5°	560.8	576.4	612.9	650.6	667.2
40°	529.8	547.5	587.4	629.6	646.2
42.5°	498.8	515.4	561.9	605.2	624.0
45°	467.7	486.6	534.2	581.9	601.8
47.5°	436.7	456.7	507.6	556.4	577.5
50°	405.7	427.8	478.8	530.9	550.9
52.5°	373.5	396.8	450.0	504.3	525.4
55°	343.6	370.2	421.2	476.6	497.7
57.5°	312.6	339.2	392.4	447.8	465.5
60°	281.5	305.9	363.5	414.5	428.9
62.5°	252.7	277.1	332.5	378.0	389.0
65°	222.8	248.3	302.6	336.9	341.4
67.5°	194.0	219.5	269.3	294.8	289.3
70°	166.3	191.7	235.0	243.8	240.5
72.5°	138.5	165.1	200.6	199.5	191.7
75°	113.1	139.7	159.6	156.3	150.7
77.5°	90.9	111.9	124.1	118.6	114.2
80°	65.4	85.3	88.7	84.2	82.0
82.5°	45.4	55.4	57.6	55.4	53.2
85°	25.5	28.8	29.9	28.8	28.8
87.5°	7.8	7.8	10.0	12.2	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)