

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: P225584

Luminaire Tested: **22AC-LD5-23-UNV-L835-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: P225584
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-L835-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2392.0 lumens
Efficiency: N/A
Efficacy: 122.5 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

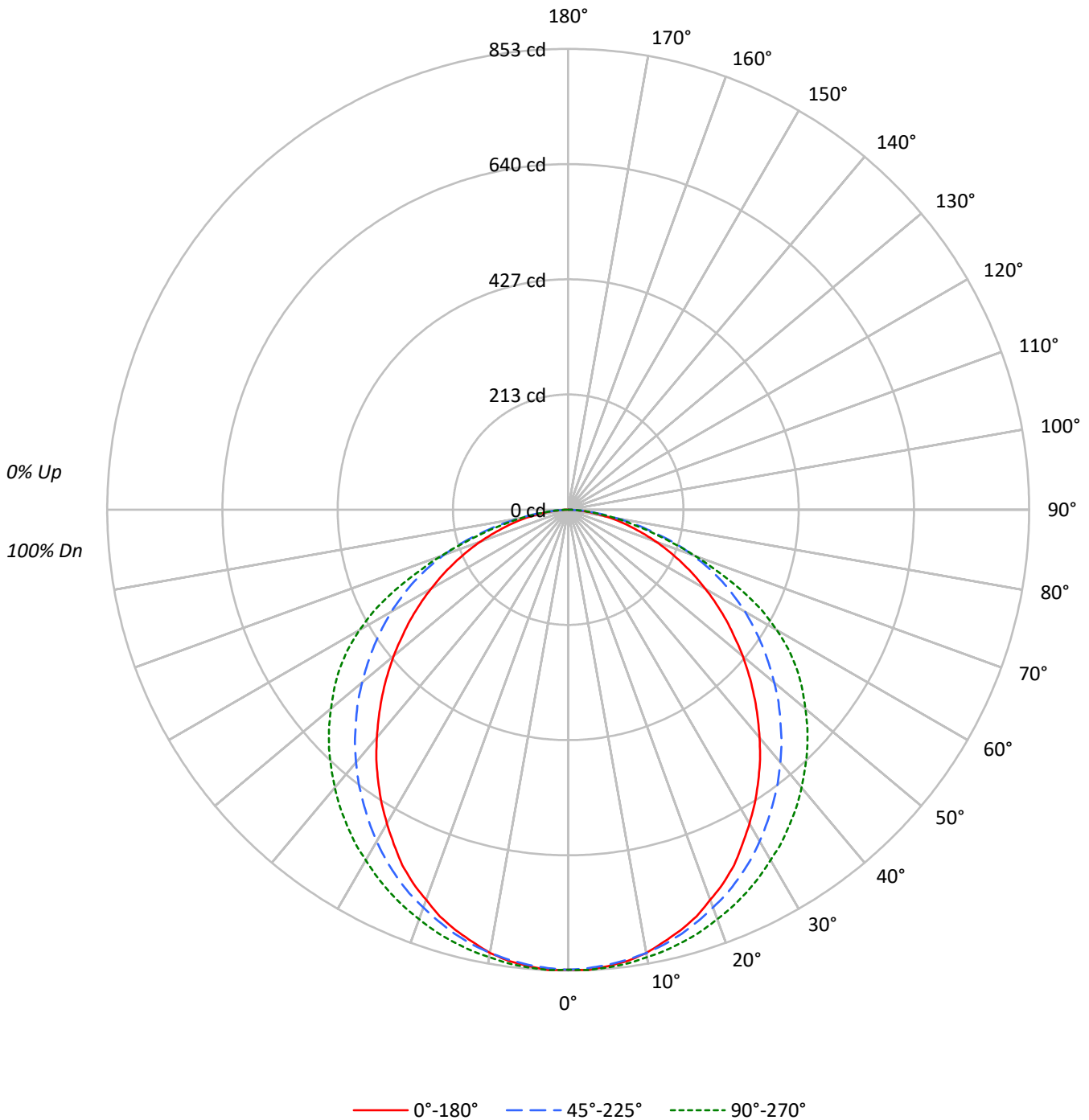
Input Watts (W): 19.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2292	2292	2292
5°	2291	2285	2297
10°	2276	2276	2299
15°	2244	2263	2305
20°	2201	2244	2310
25°	2156	2227	2320
30°	2084	2202	2327
35°	2014	2173	2343
40°	1935	2145	2360
45°	1851	2114	2381
50°	1766	2084	2398
55°	1676	2054	2427
60°	1575	2034	2400
65°	1475	2003	2260
70°	1360	1922	1968
75°	1222	1725	1629
80°	1054	1429	1322
85°	818	960	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	3.4
10°-20°	229.8	9.6
20°-30°	346.2	14.5
30°-40°	414.6	17.3
40°-50°	428.7	17.9
50°-60°	391.6	16.4
60°-70°	299.6	12.5
70°-80°	162.9	6.8
80°-90°	38.1	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°	656.5	27.4
0°-40°	1071.0	44.8
0°-60°	1891.3	79.1
0°-90°	2392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	848	847	846	848	850	81
15°	806	807	812	822	827	227
25°	726	732	750	771	781	333
35°	613	627	661	697	713	383
45°	486	506	555	605	626	375
55°	357	385	438	496	517	319
65°	232	258	315	350	355	230
75°	118	145	166	162	157	126
85°	26	30	31	30	30	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.6	851.6	851.6	851.6	851.6
2.5°	852.7	850.4	849.3	851.6	852.7
5°	848.1	847.0	845.8	848.1	850.4
7.5°	842.4	840.0	840.0	844.7	847.0
10°	833.1	830.8	833.1	838.9	841.2
12.5°	819.3	820.5	823.9	832.0	835.4
15°	805.5	806.6	812.4	821.6	827.4
17.5°	789.3	791.6	798.6	812.4	818.2
20°	768.6	772.1	783.6	799.7	806.6
22.5°	749.0	752.5	768.6	787.0	795.1
25°	726.0	731.7	750.2	770.9	781.3
27.5°	698.3	708.7	730.6	754.8	766.3
30°	670.7	682.2	708.7	737.5	749.0
32.5°	643.0	654.5	685.6	719.1	732.9
35°	613.0	626.9	661.4	697.2	713.3
37.5°	583.1	599.2	637.2	676.4	693.7
40°	550.8	569.3	610.7	654.5	671.8
42.5°	518.5	535.8	584.2	629.2	648.8
45°	486.3	505.9	555.4	605.0	625.7
47.5°	454.0	474.8	527.8	578.5	600.4
50°	421.8	444.8	497.8	552.0	572.7
52.5°	388.3	412.5	467.8	524.3	546.2
55°	357.2	384.9	437.9	495.5	517.4
57.5°	325.0	352.6	407.9	465.5	484.0
60°	292.7	318.0	378.0	431.0	446.0
62.5°	262.7	288.1	345.7	392.9	404.5
65°	231.6	258.1	314.6	350.3	354.9
67.5°	201.7	228.2	280.0	306.5	300.8
70°	172.8	199.4	244.3	253.5	250.1
72.5°	144.0	171.7	208.6	207.4	199.4
75°	117.5	145.2	165.9	162.5	156.7
77.5°	94.5	116.4	129.1	123.3	118.7
80°	68.0	88.7	92.2	87.6	85.3
82.5°	47.2	57.6	59.9	57.6	55.3
85°	26.5	30.0	31.1	30.0	30.0
87.5°	8.1	8.1	10.4	12.7	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)