

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: P225601

Luminaire Tested: **22AC-LD5-20-SQP-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: P225601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35765)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-20-SQP-UNV-L835-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1514.2 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

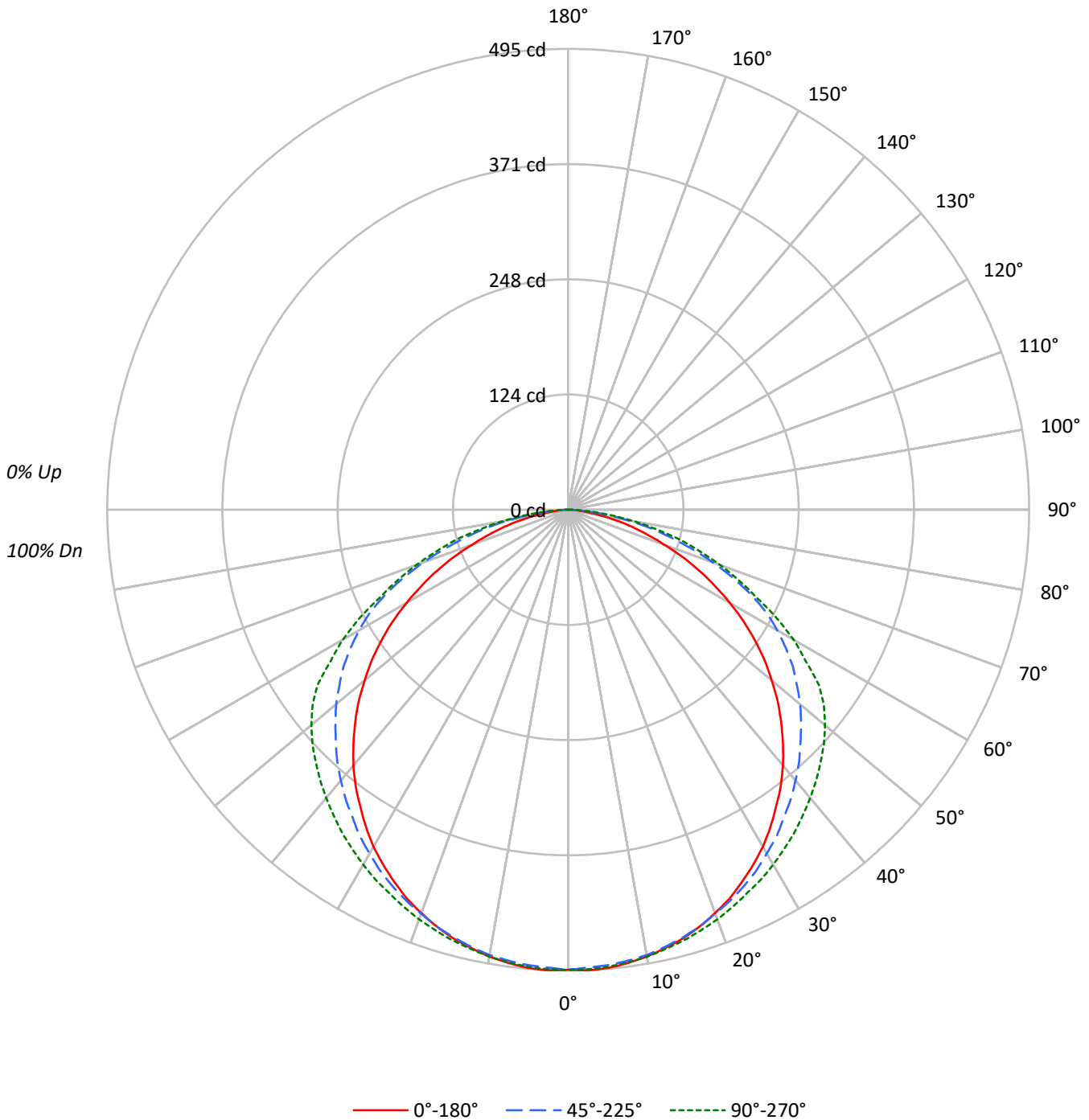
Input Watts (W): 16.73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1330	1330	1330
5°	1335	1327	1331
10°	1332	1327	1332
15°	1328	1325	1335
20°	1320	1322	1341
25°	1311	1325	1349
30°	1299	1325	1368
35°	1279	1326	1391
40°	1260	1334	1420
45°	1231	1342	1459
50°	1194	1361	1507
55°	1149	1382	1543
60°	1080	1396	1505
65°	991	1384	1422
70°	862	1301	1367
75°	735	1171	1289
80°	556	1003	1114
85°	371	667	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	3.1
10°-20°	134.6	8.9
20°-30°	206.2	13.6
30°-40°	253.9	16.8
40°-50°	272.9	18.0
50°-60°	259.0	17.1
60°-70°	200.7	13.3
70°-80°	113.3	7.5
80°-90°	26.7	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°	387.6	25.6
0°-40°	641.5	42.4
0°-60°	1173.4	77.5
0°-90°	1514.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	494	492	491	492	493	47
15°	477	476	476	478	479	134
25°	441	443	446	452	454	203
35°	389	394	404	417	423	244
45°	323	333	353	375	383	249
55°	245	265	295	320	329	218
65°	156	182	217	222	223	154
75°	71	100	113	120	124	75
85°	12	17	22	25	25	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	494.1	494.1	494.1	494.1	494.1
2.5°	495.3	494.1	492.3	493.5	494.1
5°	494.1	492.3	491.1	491.7	492.9
7.5°	491.1	489.9	488.7	489.9	490.5
10°	487.5	486.3	485.7	486.9	487.5
12.5°	482.1	481.5	480.9	482.7	483.3
15°	476.7	476.1	475.5	477.9	479.1
17.5°	469.5	468.9	469.5	471.9	473.7
20°	461.1	461.1	461.7	465.9	468.3
22.5°	452.2	452.8	454.5	458.7	461.7
25°	441.4	442.6	446.2	451.6	454.5
27.5°	430.0	431.8	437.2	443.8	448.0
30°	418.0	420.4	426.4	435.4	440.2
32.5°	404.2	407.2	416.2	427.0	431.8
35°	389.3	394.1	403.6	417.4	423.4
37.5°	374.9	379.7	392.3	407.2	413.8
40°	358.7	364.7	379.7	396.5	404.2
42.5°	341.4	349.1	367.1	386.3	394.1
45°	323.4	333.0	352.7	374.9	383.3
47.5°	305.4	315.6	339.0	362.9	372.5
50°	285.1	298.2	325.2	349.7	359.9
52.5°	265.9	280.9	309.6	335.4	346.2
55°	244.9	264.7	294.6	319.8	328.8
57.5°	223.4	245.5	277.3	300.0	302.4
60°	200.6	224.0	259.3	275.5	279.7
62.5°	177.9	203.6	240.2	252.1	252.7
65°	155.7	182.1	217.4	221.6	223.4
67.5°	133.0	162.3	191.6	194.6	198.2
70°	109.6	141.9	165.3	171.3	173.7
72.5°	89.2	121.0	138.3	145.5	147.9
75°	70.7	100.0	112.6	119.8	124.0
77.5°	52.1	77.3	88.6	94.6	96.4
80°	35.9	54.5	64.7	69.5	71.9
82.5°	22.8	34.7	41.3	46.1	47.3
85°	12.0	17.4	21.6	24.6	25.2
87.5°	4.8	5.4	7.2	12.0	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)