

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: P225599

Luminaire Tested: **22AC-LD5-38-SQP-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: P225599
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-LD5-38-SQP-UNV-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2684.8 lumens
Efficiency: N/A
Efficacy: 78.3 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

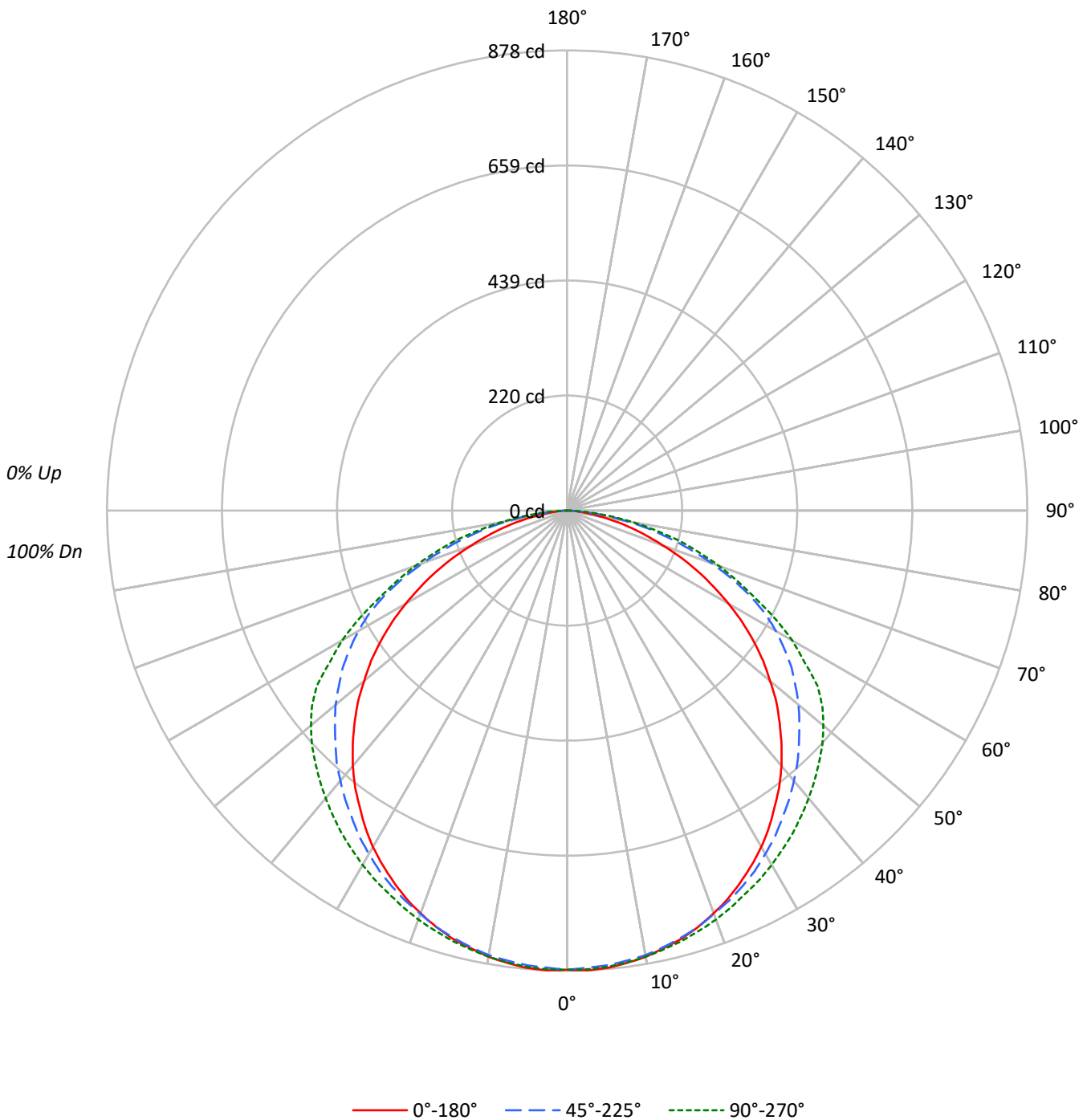
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2358	2358	2358
5°	2367	2352	2361
10°	2362	2353	2362
15°	2355	2349	2367
20°	2342	2344	2378
25°	2324	2349	2393
30°	2303	2349	2425
35°	2267	2351	2466
40°	2235	2365	2518
45°	2182	2380	2586
50°	2116	2414	2672
55°	2038	2451	2735
60°	1914	2475	2669
65°	1758	2455	2522
70°	1529	2306	2423
75°	1303	2075	2285
80°	987	1777	1974
85°	655	1179	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.1
10°-20°	238.7	8.9
20°-30°	365.7	13.6
30°-40°	450.1	16.8
40°-50°	483.8	18.0
50°-60°	459.3	17.1
60°-70°	355.9	13.3
70°-80°	200.9	7.5
80°-90°	47.4	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°	687.4	25.6
0°-40°	1137.5	42.4
0°-60°	2080.6	77.5
0°-90°	2684.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	876	873	871	872	874	83
15°	845	844	843	847	850	238
25°	783	785	791	801	806	361
35°	690	699	716	740	751	432
45°	573	590	626	665	680	442
55°	434	469	522	567	583	387
65°	276	323	386	393	396	273
75°	125	177	200	212	220	133
85°	21	31	38	44	45	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.1	876.1	876.1	876.1	876.1
2.5°	878.2	876.1	872.9	875.0	876.1
5°	876.1	872.9	870.8	871.8	873.9
7.5°	870.8	868.6	866.5	868.6	869.7
10°	864.4	862.3	861.2	863.3	864.4
12.5°	854.8	853.8	852.7	855.9	856.9
15°	845.3	844.2	843.1	847.4	849.5
17.5°	832.5	831.5	832.5	836.8	840.0
20°	817.7	817.7	818.7	826.2	830.4
22.5°	801.7	802.8	806.0	813.4	818.7
25°	782.6	784.7	791.1	800.7	806.0
27.5°	762.4	765.6	775.2	786.9	794.3
30°	741.2	745.4	756.1	772.0	780.5
32.5°	716.8	722.1	738.0	757.1	765.6
35°	690.2	698.7	715.7	740.1	750.8
37.5°	664.7	673.2	695.5	722.1	733.8
40°	636.1	646.7	673.2	703.0	716.8
42.5°	605.3	619.1	650.9	684.9	698.7
45°	573.4	590.4	625.5	664.7	679.6
47.5°	541.6	559.6	601.0	643.5	660.5
50°	505.5	528.8	576.6	620.1	638.2
52.5°	471.5	498.0	549.0	594.7	613.8
55°	434.3	469.4	522.5	567.1	583.0
57.5°	396.1	435.4	491.7	532.0	536.3
60°	355.7	397.1	459.8	488.5	495.9
62.5°	315.4	361.0	425.8	447.1	448.1
65°	276.1	322.8	385.5	392.9	396.1
67.5°	235.7	287.8	339.8	345.1	351.5
70°	194.3	251.7	293.1	303.7	307.9
72.5°	158.2	214.5	245.3	258.0	262.3
75°	125.3	177.3	199.6	212.4	219.8
77.5°	92.4	137.0	157.2	167.8	171.0
80°	63.7	96.6	114.7	123.2	127.4
82.5°	40.4	61.6	73.3	81.8	83.9
85°	21.2	30.8	38.2	43.5	44.6
87.5°	8.5	9.6	12.7	21.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)