

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: P225607

Luminaire Tested: **22AC-LD5-20-SQP-UNV-L840-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: P225607
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-L840-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1544.4 lumens
Efficiency: N/A
Efficacy: 92.3 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

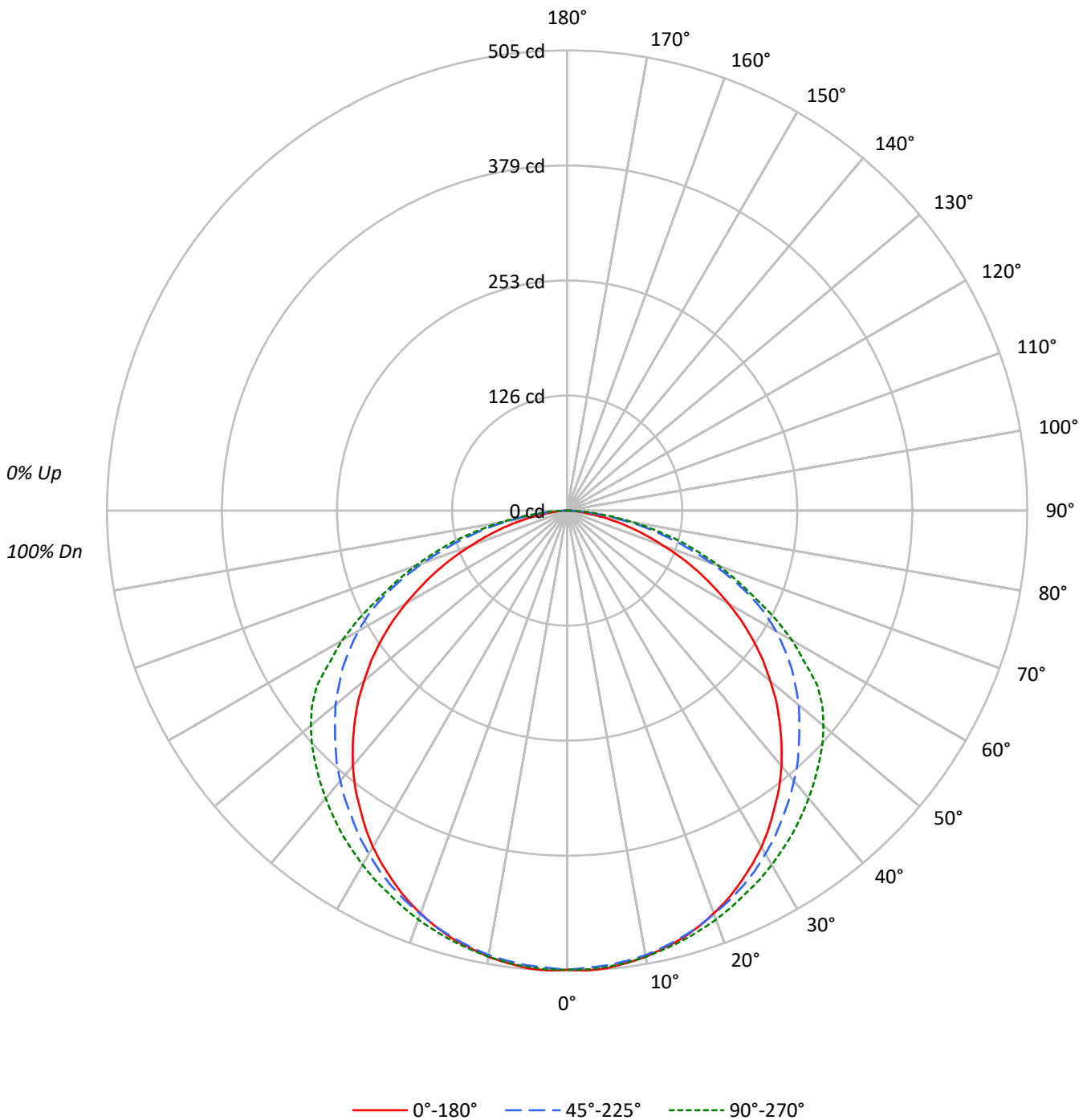
Input Watts (W): 16.73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1356	1356	1356
5°	1361	1353	1358
10°	1359	1354	1359
15°	1355	1351	1361
20°	1347	1349	1368
25°	1337	1351	1377
30°	1325	1351	1395
35°	1305	1352	1419
40°	1285	1361	1448
45°	1255	1369	1488
50°	1217	1389	1537
55°	1172	1410	1574
60°	1101	1424	1535
65°	1011	1412	1450
70°	880	1327	1393
75°	750	1194	1314
80°	569	1023	1136
85°	377	679	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	3.1
10°-20°	137.3	8.9
20°-30°	210.3	13.6
30°-40°	258.9	16.8
40°-50°	278.3	18.0
50°-60°	264.2	17.1
60°-70°	204.7	13.3
70°-80°	115.6	7.5
80°-90°	27.3	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°	395.4	25.6
0°-40°	654.3	42.4
0°-60°	1196.9	77.5
0°-90°	1544.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1544.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	504	502	501	502	503	48
15°	486	486	485	488	489	137
25°	450	451	455	461	464	208
35°	397	402	412	426	432	249
45°	330	340	360	382	391	254
55°	250	270	300	326	335	223
65°	159	186	222	226	228	157
75°	72	102	115	122	126	77
85°	12	18	22	25	26	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	504.0	504.0	504.0	504.0	504.0
2.5°	505.2	504.0	502.1	503.3	504.0
5°	504.0	502.1	500.9	501.5	502.7
7.5°	500.9	499.7	498.5	499.7	500.3
10°	497.2	496.0	495.4	496.6	497.2
12.5°	491.7	491.1	490.5	492.3	493.0
15°	486.2	485.6	485.0	487.5	488.7
17.5°	478.9	478.3	478.9	481.4	483.2
20°	470.4	470.4	471.0	475.2	477.7
22.5°	461.2	461.8	463.6	467.9	471.0
25°	450.2	451.4	455.1	460.6	463.6
27.5°	438.6	440.4	445.9	452.6	456.9
30°	426.4	428.8	434.9	444.1	449.0
32.5°	412.3	415.4	424.5	435.5	440.4
35°	397.1	401.9	411.7	425.8	431.9
37.5°	382.4	387.3	400.1	415.4	422.1
40°	365.9	372.0	387.3	404.4	412.3
42.5°	348.2	356.1	374.5	394.0	401.9
45°	329.9	339.6	359.8	382.4	390.9
47.5°	311.5	321.9	345.7	370.2	380.0
50°	290.8	304.2	331.7	356.7	367.1
52.5°	271.2	286.5	315.8	342.1	353.1
55°	249.8	270.0	300.5	326.2	335.4
57.5°	227.8	250.5	282.8	306.0	308.5
60°	204.6	228.5	264.5	281.0	285.3
62.5°	181.4	207.7	245.0	257.2	257.8
65°	158.8	185.7	221.7	226.0	227.8
67.5°	135.6	165.5	195.5	198.5	202.2
70°	111.8	144.8	168.6	174.7	177.1
72.5°	91.0	123.4	141.1	148.4	150.9
75°	72.1	102.0	114.8	122.2	126.4
77.5°	53.1	78.8	90.4	96.5	98.3
80°	36.7	55.6	66.0	70.9	73.3
82.5°	23.2	35.4	42.1	47.0	48.3
85°	12.2	17.7	22.0	25.0	25.7
87.5°	4.9	5.5	7.3	12.2	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)