

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: P225554

Luminaire Tested: **14AC-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: P225554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14AC-LD5-20-SQP-UNV-L835-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH SQP LENS
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1361.8 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

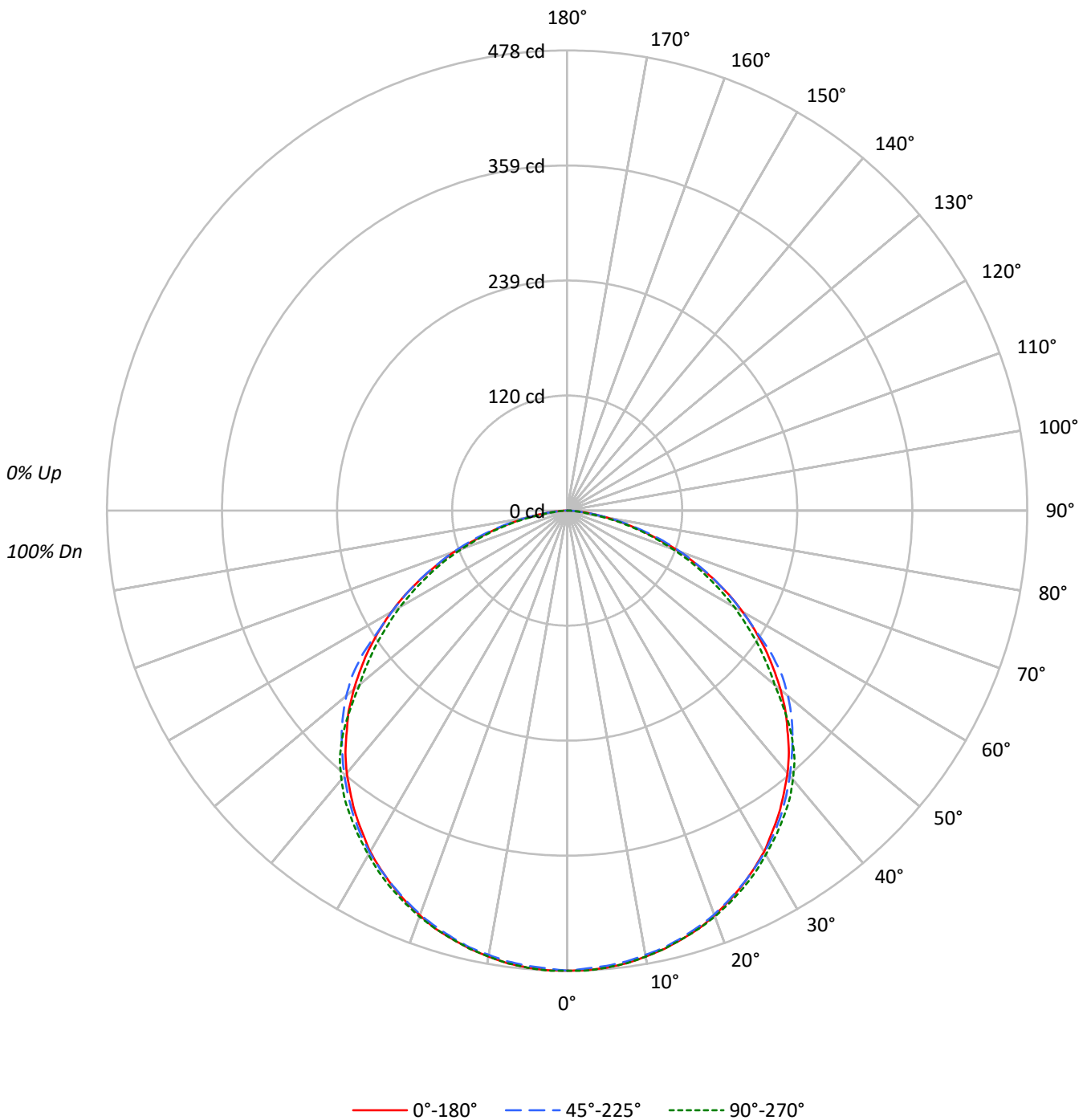
Input Watts (W): 16.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1342	1342	1342
5°	1343	1338	1343
10°	1342	1336	1342
15°	1340	1335	1340
20°	1337	1334	1341
25°	1332	1330	1341
30°	1327	1330	1338
35°	1316	1327	1339
40°	1305	1319	1338
45°	1286	1315	1310
50°	1263	1308	1229
55°	1231	1267	1183
60°	1184	1181	1127
65°	1110	1116	1054
70°	1019	1030	954
75°	856	896	816
80°	679	694	574
85°	445	387	325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	3.3
10°-20°	130.1	9.6
20°-30°	198.6	14.6
30°-40°	242.3	17.8
40°-50°	253.4	18.6
50°-60°	224.3	16.5
60°-70°	165.2	12.1
70°-80°	85.5	6.3
80°-90°	17.0	1.3
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°	374.0	27.5
0°-40°	616.3	45.3
0°-60°	1094.0	80.3
0°-90°	1361.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1361.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	476	476	475	476	476	45
15°	461	461	459	461	461	130
25°	430	430	429	432	433	198
35°	384	385	387	391	391	240
45°	324	327	331	334	330	250
55°	251	256	259	245	242	224
65°	167	177	168	161	159	165
75°	79	84	83	78	75	84
85°	14	15	12	11	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.9	477.9	477.9	477.9	477.9
2.5°	477.9	477.9	476.0	477.9	478.3
5°	476.5	476.5	474.7	476.5	476.5
7.5°	474.2	473.7	472.3	474.2	474.2
10°	470.5	470.5	468.7	471.0	470.5
12.5°	466.3	465.9	465.0	466.8	466.3
15°	460.8	460.8	459.4	461.3	460.8
17.5°	455.3	454.8	453.4	455.3	455.3
20°	447.4	447.0	446.5	448.4	448.8
22.5°	439.1	438.7	438.2	441.0	441.0
25°	429.9	429.9	429.4	432.2	432.7
27.5°	419.8	419.8	420.2	423.9	423.5
30°	409.2	409.2	410.1	412.8	412.8
32.5°	396.2	397.2	399.0	402.2	402.2
35°	383.8	384.7	387.0	390.7	390.7
37.5°	369.9	371.3	373.6	378.2	379.2
40°	356.1	357.0	359.8	364.9	364.9
42.5°	340.9	341.8	345.5	350.6	349.6
45°	323.8	326.6	331.2	334.0	329.8
47.5°	307.7	309.5	316.0	312.7	305.8
50°	289.2	292.9	299.4	287.8	281.4
52.5°	270.3	274.5	281.4	265.2	261.5
55°	251.4	256.5	258.8	245.4	241.7
57.5°	231.1	236.6	232.0	224.2	220.5
60°	210.8	217.3	210.3	203.0	200.7
62.5°	189.6	197.0	189.1	182.7	179.4
65°	167.0	177.1	167.9	161.4	158.7
67.5°	144.8	155.4	145.8	140.2	138.4
70°	124.1	130.1	125.5	119.9	116.2
72.5°	99.2	105.2	104.2	98.3	95.9
75°	78.9	84.4	82.6	77.5	75.2
77.5°	58.6	64.6	62.7	56.7	55.8
80°	42.0	46.1	42.9	37.4	35.5
82.5°	26.3	29.5	25.4	21.2	20.3
85°	13.8	14.8	12.0	10.6	10.1
87.5°	4.6	5.1	5.1	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)